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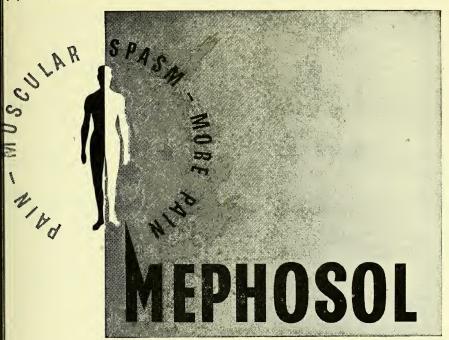
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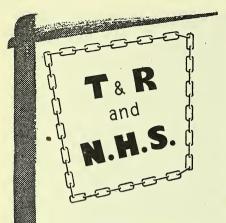
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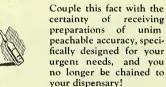




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such small margins of profit!

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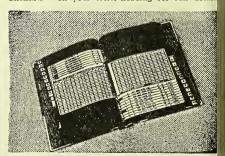
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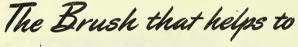
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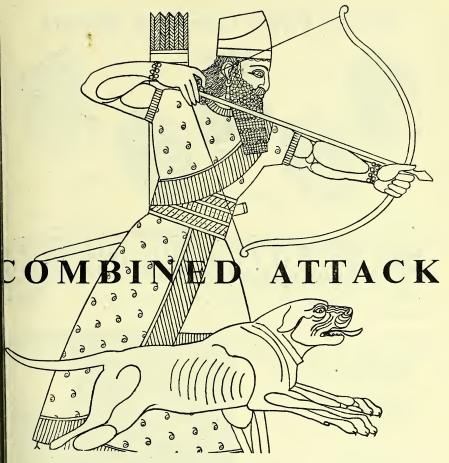
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'Daraprim' brand Pyrimethamine (2:4-Diamino-5-[4-chlorophenyl]-6-ethylpyrimidine), the new antimalarial announced some months ago, has now undergone clinical trials and is ready for issue.

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In many parts of the tropics, a single dose of 50 mgm. (in some cases even less) has been found adequate to clear the parasitæmia and relieve the fever in acute cases of malaria. Some workers, however, prefer to give two doses on consecutive days.

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IN JEYES' LIMERICK COMPETITION!

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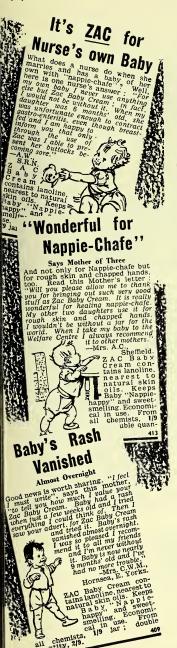
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they are proving very popular."

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... three use Steradent



Of every four people who clean their dentures with a steeping agent, three use Steradent. *

STERADENT is the Reckitt & Colman product specially made to "oxygenclean" false teeth: to drive from every corner and crevice of the denture every trace of film, stain, odour ... safely, completely.

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*Figures from a recent, independent, survey

Steradent Specially words as

"oxygen-clean" false teeth





Nice sort of chap, this customer of mine, but someone must have sold him a dud rattle in his cradle.

He 'knew' Corvette wasn't any good. I told him I'd tried it myself and liked it—that other customers were enthusiastic about its quality. He knew that was just sales talk. He'd heard it all before . . .

Try it, I told him a bit stiffly.

And give him his due — he did.

YOULDN'T BELIEVE A THING

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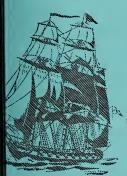
He took off his hat to Goya's men's livision. From then on, he said he'd ouy the stuff. And oddly enough



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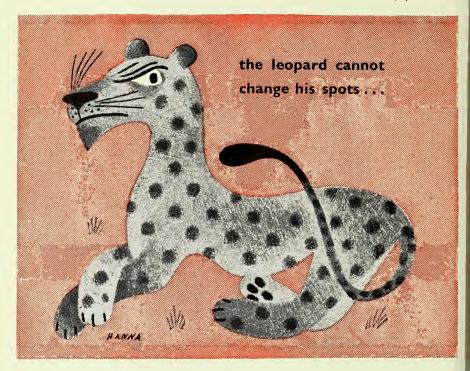


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Corvette

a new range of matched toilet preparations by Goya (MEN'S DIVISION

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'Eskamel' for acne

MENLEY & JAMES, LIMITED, Coldharbour Lane, London, S.E.5 for Smith Kline & French International Co., owner of the trade mark 'Eskame!'

Help yourself to these



*Extra Bia Profits on ORHANS TOOTHPASTE

Special 2-month Bonus Scheme commencing 1st August OFFERS 12 FOR PRICE OF 11

GIVES OVER 65% ON COST ON BEST QUANTITY TERMS (6 DOZ)

Forhans PRICE CHANGES Give Chemists Highest Profit Margins As from 1st August prices for FORHANS Toothpaste for the Gums will be:

Small Size 11 5d. per doz. (P.T. 3 10d.)

1 8d. each retail Profit for you on cost 54% 61.67% I doz. quantity 65.81%

Large Size

18 9d. per doz. (P.T. 6 3d.) 2 9d. each retail Profit for you on cost 55.83% 63.78% I doz. quantity 68.06%

BIG FORHANS NATIONAL SALES DRIVE COMMENCES EARLY **AUTUMN WITH**

PRESS ADVERTISING

DISPLAY **MATERIAL**

> ATTRACTIVE **NEW-DESIGN PACKS**

FORHANS TOOTHPASTE

for the Gums now incorporates the Special Forhans Formula which means you need stock but ONE LINE OF FORHANS . . . it is available to your customers in two popular sizes.

Don't wait until it's too late place your bonus orders today!

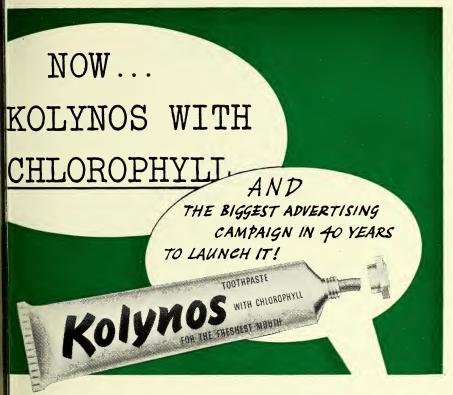
Write to: FASSETT & JOHNSON LIMITED, 86 CLERKENWELL ROAD, E.C.I



BIGGEST NEWS



IN TOOTHPASTE



The New Kolynos with Chlorophyll is the bigest toothpaste news ever. This news is being out across to you through a real heavy-weight ampaign of attention-getting, hard-selling dvertising—the biggest concentration that Kolynos has ever given to you in all their 40 ears in the toothpaste business.

Meaning BIGGER SALES, BIGGER PROFITS, you make sure you get your displays up now.

Don't miss a single sale—order now and order nough to meet the sensational new demand that coming for this sensational new toothpaste.

TRADE TERMS

Retail selling price 1 8 (including tax)
List price per dozen 12 -

purchase tax 4'YOUR BASIC PROFIT 4/-

Kolynos with Chlorophyll tooth paste qualifies for the usual co-operation discounts on I.C.C. mixed parcels, £5 parcel 10%; £10 parcel 12½%, your profit on best terms 34.37%

TANDARD KOLYNOS AVAILABLE AS USUAL

M&B

symbol of quality

Experience gained in the manufacture of a wide range of pharmaceutical chemicals for more than half a century has enabled May & Baker to establish and maintain standards of purity and uniformity which are recognised and appreciated by pharmacists throughout the world.

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ANTISTIN-PRIVINE

Antihistamine

Vasoconstrictor

The Decongestant with immediate effect in

ALLERGIC RHINITIS

and conjunctivitis

The intense irritation, nasal discharge and lachrymation

RELIEVED FOR SEVERAL HOURS BY A SINGLE APPLICATION

Convenient Pocket Nebulisers for nasal application.

Dropper bottles for use in nose and eye. Bottles of 4 and 20 fl. ozs.

Antistin-Privine contains 0.5% w/v 2-phenylbenzylaminomethyl imidazoline sulphate and 0.025% w/v 2-(naphthylmethyl)-imidazoline nitrate.

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'Antistin' and 'Privine' are registered trade marks: Reg. user

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A Scott & Bowne Product

Introducing

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(Light Engineering Section)

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BRIT. PAT. 648873

Women everywhere will welcome this new improved patented tweezer. British made from steel with heavy Chrome finish. Packed in dozens for counter display. ORDER FROM YOUR WHOLESALER.

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ESTABLISHED 1858

Sayers, Silcox, Cuzner & Co. Ltd.

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IMPORTED—PRE-WAR QUALITY

Size 6" × 3" × 2 m. m, thick. Danish Beech, each one perfectly finished.

Over six million were sold last year without a single complaint.

Price to trade thought per thousand (boxed 100's)

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Specialists in Veneer and Plywood products for all trades IBEX HOUSE, MINORIES, LONDON, E.C.3.

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Personality

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PERSONALITY PRODUCTS

are now available through a selected list of Chemist Wholesalers

Personality Beauty Products Limited, of Ashby-de-la-Zouch, Leicestershire, have made arrangements whereby supplies of all Personality products, including:—

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PERSONALITY
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TURTLE OIL SKIN FOOD
and

PERSONALITY TURTLE OIL
SHAVING STICKS
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can be obtained from a large number of Wholesalers. A full list can be supplied upon application.

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Combining Liver Extract.
Ferri et Ammon Cit. Red
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An ideal nutritional adjuvant and hæmatinic tonic for infants, children and adults.

2 oz. bottles, with dropper, 4 oz., 8 oz. and 16 oz.

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TOILET SOAP

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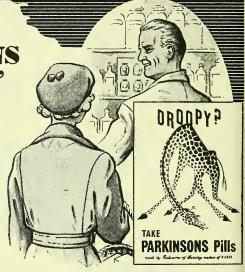
is sending the public into chemists' shops asking for these two Bibby products. Are you letting people go away empty-handed? Stock up and share in this profitable business.

Generous Trade Terms are offered to Retailers. Write for full details to: J. BIBBY & SONS LIMITED, KING EDWARD STREET, LIVERPOOL 3

"A bottle of PARKINSONS PILLS please"

Do make quite certain that you can supply what the customer asks for. And people are always asking for Parkinsons Pills—just as they ask for Kilkof during the cough season.

The new "Droopy" National advertising campaign will give fresh impetus to their demand. Give them Parkinsons, satisfy them, and profit from repeat sales.



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129 FILMS

AVAILABLE FROM STOCK

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Terms: Cash with Order

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Tablets to standard formulæ always in stock.

Our plant is capable of making perfect tablets from $\frac{1}{8}$ " to $2\frac{1}{2}$ " in diameter, and 8 milligrammes to 4 ounces in weight.

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52,677,000 advertisements

to help you sell Kleenex!



Yes, we'll soon be backing Kleenex* with the biggest advertising campaign in the history of tissue hand-kerchiefs in Britain. Advertisements will run in national newspapers, national magazines and women's

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STOCK and DISPLAY Kleenex NOW! It sells on sight because it's soft, strong—and is the ONLY tissue that pops up one-at-a-time!
*Reg. Trade Mark

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150 ECONOMY SIZE TISSUES (75 pulls) $8\frac{3}{4}$ " × $6\frac{3}{4}$ "

1/-

200 REGULAR SIZE TISSUES (100 pulls) 83" × 93"

2/-

MADE IN ENGLAND BY CELLUCOTTON PRODUCTS LTD., 33 AYLMER PARADE, N.2

PLACE YOUR ORDER THROUGH YOUR WHOLESALER TODAY!



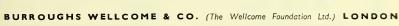
below surface attack Effective treatment of "athlete's foot", "dhobie itch" and other dermatophytoses requires that the fungicide be carried to the most deep-seated spores. In 'Tineafax' Ointment the fungicides, chief of which is zinc undecylenate, are incorporated in a base of exceptional penetrating power. The advantages of 'Tineafax' Ointment and its companion product, 'Tineafax' Powder (for prophylaxis), are being detailed to doctors by letter and in advertisements in medical journals. You may therefore expect an increased demand for both preparations during the coming months. 'Tineafax' Ointment is issued in tubes of I oz. and jars of I lb., 'Tineafax' Powder in sifter-top tins containing 40 gm.

when fungus is afoot . . .

'TINEAFAX'

COMPOUND UNDECYLENATE OINTMENT
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Z-I-N-G No. 1 (Insect Repellent)

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MALANTI Anti-Sickness REMEDY

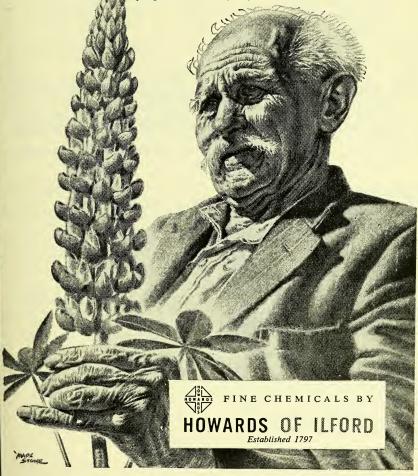
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a flood of hybrids in our time comes based on knowalso mark the of men and the

that have left gardeners for ever in his debt. Achievement only as it always came — by mastery of technique ledge and devotion. It is our conviction that this can attitude of a fine chemical house on which the health progress of industry depend.



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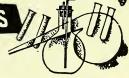
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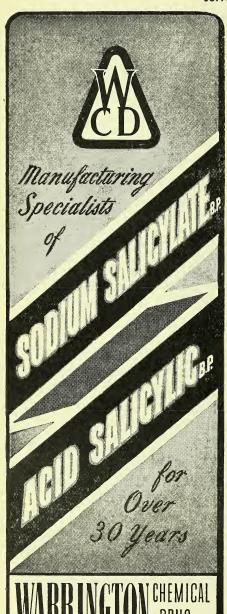
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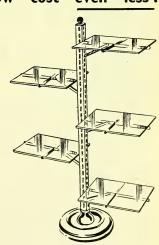
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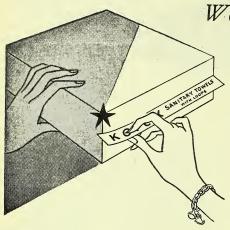
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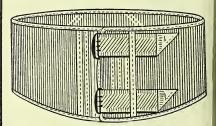
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"NO MORE NAPPY WASHING"





in every inch!

Plan now to sell the G.B.-Bell & Howell Sportster Movie Camera . . . show your customers the handsome, compact design, rugged construction, and above all, the superb features that mean success in personal movie-making.



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Make special window



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Taylor-Hobson coated lens · 4 accurately calibrated operating speeds Built-in exposure guide Single frame exposure footage Compact, Automatic dial weighs 24 ozs. The motor does not run down-you can use the whole wind.

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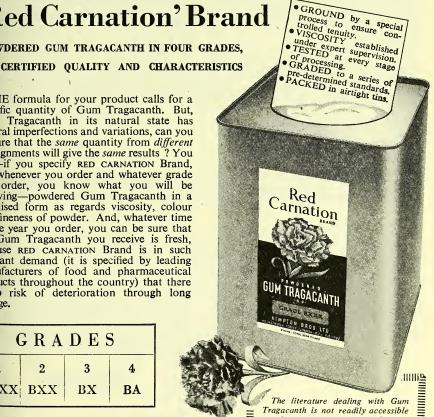
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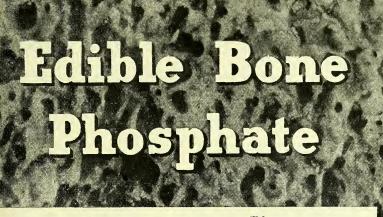
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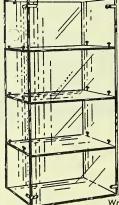
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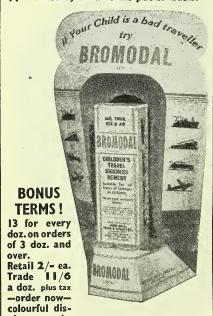
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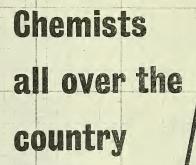
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NEWS OF THE WEEK

Royal Patronage Renewed.—The Royal Photographic Society announces that the Queen has conferred her Royal Patronage n the Society.

Economy Advice.—The Ministry of lealth has sent to all hospital authorities a England and Wales information on how be have silver recovered from used x-ray lm.

Photographic Collection.—The pernanent photographic collection of the cience Museum, South Kensington, Lonon, illustrating the history of photography om its earliest days, is to be re-exhibited. Intil recently the photographs have been war-time storage quarters.

Drawback on Hydrocarbon Oils.—The reasury has made an Order (S.I., 1952, o. 1302), effective from July 14, providing for the allowance of drawback of duty aid in respect of hydrocarbon oils used the manufacture of certain rubber proucts including feeding bottle teats and alves, enemas and finger cots.

Doubts About Cholera Antisera.—In neir first report (published May 1952) the Expert Committee on Cholera of the World Health Organisation state that the use of freeze-dried cholera antisera is "open to considerable question" in view of repeated observations on the irregular destruction of antibodies during freeze-drying.

Chemistry Research Grants. — The Chemical Society has announced that applications for grants offered annually by the Society for chemical research should be submitted by November 15. Application forms and information may be obtained from the general secretary of the Society, Burlington House, Piccadilly, London, W.I.

N.H.S. Pharmaceutical Appointments.—The Minister of Health has appointed Alderman W. J. Tristram, J.P., M.P.S. (president of the Pharmaceutical Society) to the Central Health Services Council and to the Standing Pharmaceutical Advisory Committee, Mr. H. Noble, B. Pharm., Ph.C. (secretary, National Pharmaceutical Union) has also been appointed to the Advisory Committee,

Australian Tariff Decisions.—The following medicinal preparations are to be admitted free of duty by Australia under the British Preferential Tariff:— Compounds of (1) amidopyrine, caffeine and iso butylallyl barbituric acid; (2) ethinyl estradiol and methyl testosterone; (3) penicillin and benzocaine. Chinese agar is also admitted free and saccharin for use in the manufacture of dental cleaning preparations is charged at 5 per cent. advalorem.

Fertiliser Price Changes.—Under an Order (S.I., 1952, No. 1313) made by the Minister of Materials the permitted maximum prices of most fertilisers (except basic slag) were reduced on July 16. The price per ton of sulphate of ammonia is reduced by 8s., "nitro-chalk" by 3s., compound fertilisers by approximately £2, ground rock phosphate by £1 14s., superphosphate by £1 11s., and the higher grades of potash by 14s. to 19s. There are increases of 3s, 6d. a ton in 40 per cent. grade potash and of 11s. 6d. a ton in 48 per cent, grade sulphate of potash.

Chemists Federation.—A meeting of the Chemists Federation council was held on June 3, the president (Mr. W. T. Elder) in the chair. The following additions to schedules of C.F. agreements were approved by the Council:—Allied Laboratories, Ltd. (Ascon); Calmic, Ltd. (elixir Cerevon); Christie, George & Co., Ltd. (Meethobalm, Drephabalm, liquid Calobalm); Crookes Laboratories, Ltd. (Mephosol); Smith Kendon, Ltd. (Geeps); Westminster Laboratories, Ltd. (Asbrook); Westminster Laboratories, Ltd. (Beplete tablets, Sopronal ointment, Thiomerin sodium mercurial diuretic). The secretary reported the co-operation of several manufacturers in amending claims in accordance with suggestions made by the standards committee. It was resolved that the Federation should establish a reserve fund equal approximately to one year's income to be bu'lt up over a period of five years.

International Assay Methods. — Discussions on the possible introduction of new analytical methods into the International Pharmacopæia are recorded in the recently published report of the World Health Organisation's expert committee on that subject. In many countries pharmacists are legally obliged to control the drugs that they dispense. Difficulties would therefore arise if pharmacopæial assays called for expensive instruments.

The committee has decided, however, that where a new process would give good and quicker results it should nevertheless be introduced, possibly with alternative methods. The following methods are being investigated:—

Colorimetry, column and paper chromatography, ion-exchange methods, microchemical reactions, melting-point determinations of derivatives and eutectic mixtures, the "complexone" titration of certain metals, determination of refractive indices of solids, polarography, spectrophotometry, Karl Fischer method for the determination of water and titration in non-aqueous liquids of weak bases and acids.

The W.H.O. is being recommended to collect, on a world-wide basis, pharmacological, pharmaceutical, clinical, chemical and other information concerned with drugs.

Payments on Account.—The Ministry of Health has sent to the Clerk of each Executive Council and of the Joint Pricing Committee for England a circular letter which states that the monthly payment on account to a chemist-contractor, in respect of each prescription dispensed in July and until further notice, should be based on the chemist's average total cost per prescription for August 1951. Expensive prescriptions specially priced should be excluded from the calculation. The amount, says the circular, should be increased as follows: - Average cost in August 1951 of under 2s. 6d., 1d. increase; 2s. 6d. to under 4s. 2d., 2d.; 4s. 2d. to under 5s. 1od. 3d.; and 5s. 1od. and over, 4d. Calculation of the payment on account should be made on go per cent, of the adjusted average (to the nearest penny, minimum 2s.). For new contractors minimum payment should be at the rate of two shillings per prescription. To allow for the levy, the payment should be reduced by 113d, for each form declared (except stamped forms). Quarterly payments on account to dispensing doctors which include payment for prescriptions dispensed in July and subsequent months. should be calculated similarly except that no reduction should be made for the levy

Essential Oil Importers.—At the annual meeting of the Essential Oil Importers Section, London Chamber of Commerce, or June 25, the chairman (Mr. A. T. Wheeler said that as a result of action taken by the Section following the revocation of the open general licence for the import of certain essential oils (see C. & D., 1951.II 641), the authorities had agreed to a scheme for treating outside the basic quotal essential oils imported for re-export

and to increase the basic quota itself. These concessions had considerably eased he position. When it was learned that he import restrictions would be continued during the second half of 1952, a leputation had again visited the Board of Frade with a view to urging that any inused balances of licences for the first half of the year should be carried forward o the second half. In that, the deputation and again been successful, an arrangement broadly to the desired effect being agreed y the authorities. The deputation had also stablished that compounds and terpeneess oils should be dealt with separately and hould not be regarded as coming out of he basic quota for essential oils. The mporters had been recommended to disribute the available oils as nearly as ossible pro rata to their customers' purhases during the datum period on which he quota was based and the arrangeent seemed to be working satisfactorily. Iessrs, A. T. Wheeler and C. F. Bush ere unanimously re-elected Chairman and Deputy-chairman respectively.

LOCAL NEWS

Pharmacy as a Career.—In a series of ticles "Is This the Job for Me?" published for the benefit of boys and girls aving school, the Glasgow "Daily ecord" recently dealt with "The Pharacist."

Works Visits.—Recent visitors to the ant of Glaxo Laboratories, Ltd., Greenrd, have included pharmacy students on Chelsea Polytechnic, members of the st Metropolitan Branch of the Pharmautical Society and of the West Middlex Chemists' Association and Branch.

Radioactive Cobalt at Leeds Infirmary. Encased in nearly a ton of lead blocks, consignment of $2\frac{1}{2}$ oz. of radioactive balt (several times more powerful than dium) was delivered at Leeds Infirmary om Harwell research establishment rently. It is understood that only four itish hospitals are having a machine for lising such radioactive cobalt.

SPORT

Solf.—BIRMINGHAM PHARMACEUTICAL ASSOCIAN GOLF SECTION, at Sandwell Park golf club, st Bromwich, on July 2, for Southall cup, 18 es medal competition: Winner, F. Dent, 72. Potter & Moore cup, 18 holes bogey competition: Winner, A. P. Hague, 3 down.

DINBURGH CHEMISTS' GOLF CLUB.—Competiat Kilspindie for Crookes trophy: Alan de (18), 62. Vice-captain's prize, Stableford competition: 1, Hugh Semple, 36 points; 2, J. A. Smith, 35. Club prizes: R. H. Gilliland, A. E. Graham, A. Fulton, John Liddell, D. McCallum, and W. Glencross. Best score: J. B. McCaig, 71.

London Chemists' Golfing Society, at Bush Hill Park golf club, Enfield, on July 2, for medal competition for Yardley cup. Winner: H. M. Culmer (15), 65 net (3 under s.s.s.). Bogey competition for the Harker Stagg prize. Winner: T. M. Hunnings (11), 1 up. Other leading scores: T. M. Hunnings (16), 68, Dr. W. E. Swanston (22), 69, T. M. Hunnings (11), 69, B. F. Tisdall (8), 71, and R. Poole (8), 71. Bogey: T. M. Hunnings (11), 1 up, J. Catto (16), all square, H. M. Crimer (15), 1 down, Dr. W. E. Swanston (22), 1 down, and R. Poole (8), 2 down.

IRISH NEWS

Medical Conference.—The medical exhibition held in conjunction with the British and Irish Medical Associations' Conference in Dublin (see C. & D., July 5, p. 3) was opened on July 7 by Dr. P. T. O'Farrell, Dublin (newly elected president, B.M.A.). He said that this year's exhibition was of particular interest because it adjoined a scientific exhibition—a new venture on the part of the B.M.A. At the scientific session of the Conference, held on July 10, Dr. H. Moore (chairman) said that the Minister for Health was considering a scheme for free distribution of cortisone to patients of small means. He believed that cortisone could prevent organic damage to the heart in rheumatic fever. No doctor should use the drug without first mastering the literature on the subject, without strict supervision of every patient, and without being always on the watch for side-effects. Dr. P. N. Meenan, Dublin, said that research workers in the field of virus diseases were catching up with their colleagues in bacteriology who could make use of antibiotics.



Mr. W. P. Mullen (Eire representative of The British Drug Houses, Ltd.) presented the B.D.H. cup to Mr. Sylvester O'Farrell (captain) after the Irish Chemists' Golfing Society had defeated the Ulster Chemists' Golfing Association team recently at Baltray, co. Louth.

LOCAL OFFICERS

Officers of Branches of the Pharmaceutical Society and of other pharmaceutical organisations elected recently include:—

King's Lynn N.P.U. Branch.—Chairman, Mr. H. Hart; Vice-chairman, Mrs. L. A. C. Matkin; Secretary, Mr. F. C. Bentley.

South Shields Association.—Chairman, Mr. G. I. Coulthard; Treasurer, Mr. W. A. Power; Secretary, Mr. J. F. B. Moore, 4 King Street, South Shields, co. Durham.

Tees-side Branch. — Chairman, Mr. T. R. Scholfield; Vice-chairman, Mr. E. M. Robinson; and Secretary and Treasurer, Mr. T. Gould, 33 Grange Road, Norton, Stockton-on-Tees.

Coventry and Warwickshire Branch.— Chairman, Mr. W. A. Bales; Vice-chairman, Mr. O. T. Hall; Secretary, Mr. H. S. Linton, 13 High Street, Coventry; Treasurer, Mr. S. J. Starkey.

North Metropolitan.—Chairman, Mr. A. G. Felton; Vice-chairman, Mr. Carl Norman; Treasurer, Mr. C. W. Leaversuch; Secretary, Mr. A. E. Footitt, 5 Mountgrace Road, Potters Bar.

Liverpool Branch.—Chairman, Mr. J. P. Murphy; Vice-Chairman, Mr. L. A. Butt, Secretary, Mr. H. W. Cottle, 12 Beacon Lane, Liverpool, 5; and Treasurer, Mr. E. C. Bonons.

North Devon Pharmaceutical Association. — Chairman, Mr. G. A. Coleby; Vice-chairman and Treasurer, Mr. L. W. Henson; Secretary, Mr. S. R. Wicks, 77 High Street, Bideford, North Devon.

Bolton Pharmaceutical Association.— President, Mr. H. Porter, Vice-president, Mr. N. Berry; Secretary, Mr. W. Crumblehulme, Silverdale, Stapleton Avenue, Bolton, Lancs; and Treasurer, Mr. R. J. Dunne.

Sheffield Branch.—Chairman, Mr. W. Firth; Vice-chairman, Mr. J. E. Richardson; Treasurer, Mr. C. A. Fox; Social Secretary, Mr. H. L. Bradwell; Secretary, Mr. S. Durham, 29 Stephen Hill Road, Sheffield, 10.

Exeter Branch.—Chairman, Mr. H. Jarvis Graves; Vice-chairman, Mr. D. H. Gould; Treasurer, Mr. R. H. Trickey; Auditor, Mr. E. G. W. Hodge; and Secretary, Mr. T. C. Neville Booth, 2 Queen Street, Exeter.

Durham Branch.—Chairman, Mr. E. E. Pattison; Vice-chairman, Mr. C. L. Robertshaw; Treasurer, Mr. F. T. Richardson; and Secretary, Mr. L. Wood, Woodbine House, Old Hunwick, near Willington, co. Durham.

Glasgow Branch, Guild of Public Pharmacists.—Chairman, Mr. T. Morrison; Vice-chairman, Mr. J. Nicol; and Secretary and Treasurer, Mr. W. Hendry, pharmaceutical department, Lennox Castle Institution, Lennoxtown, Stirlings.

West Kent Branch.—Chairman, Mr. S. J. Hamer; Vice-chairman, Mr. L. C. Mote; Treasurer, Mr. A. W. Jutton; Secretary, Mrs. N. E. D. Gomer, Pharmaceutical Department. Beckenham Hospital, Croydon Road, Beckenham, Kent; and Assistant Secretary, Mr. L. A. Jupp.

Manchester Pharmaceutical Association and Branch.—Association President, Mr. R. E. Parry; Vice-presidents, Messrs Gordon Smith and Harry Burlinson Branch Chairman, Mr. E. Berry; Vice-chairman, Mr. J. R. Walmsley; Treasurer Mr. A. E. Thorpe; Social Secretary, Mr W. Wilkinson; Secretaries, Messrs. T. Miller, 3 Wyngate Road, Hale, Ches, and E Cronin, 46 Grangethorpe Drive, Burnage Manchester, 19.

Guild of Public Pharmacists.—President, Mr. A. G. Shaw; Vice-president and Treasurer, Mr. A. M. Mees; Registrar Mr. J. E. Cocking; Assistant Registrar Miss M. C. Banks; Insurance Registrar Mr. J. H. Wood; Editor, Mr. D. F. Smith; Secretary to the Council, Mrs. E. L. Murry; Assistant Secretary, Mr. E. W. Barstow; General Secretary, Mr. J. Moore, 14 Oakbank Close, Summerhil Lane, Haywards Heath, Sussex.

South-west London.—President of the Association and Chairman of the Branche of the Society and National Pharmaceu tical Union, Mr. W. Dinsdale; Vice presidents, Messrs. D. J. Vosper and G. R. Boyes; Treasurer, Mr. W. E. Wragg General Secretary, Mr. H. R. Edgecombe 77 Atlantic Road, London, S.W.9 (tele phone Brixton 2413); Assistant Genera Secretary and Trade Secretary, Mr. D. J. Vosper, 19 Upper Tooting Road, Londor S.W.17 (telephone: Balham 4297); Socia Secretary, Mr. A. T. Morgan, 11 Broad water Road, London, S.W.17 (telephone Balham 1151).

TOPICAL REFLECTIONS

Ethics and Sales

The author of "A Positive Approach to Ethical Problems" (pp. 51-53) has discussed the ethics of selling and dispensing in wider aspects than most, if not all, previous writers and speakers have recognised. With much of the article there will be general agreement; and "Observer's" statement of a few controversial problems is free from bias. One of these problems is put in the form of a question. The author asks whether it is "logical or fair to the retail pharmacist" to have registered pharmacists visiting medical men as travelling representatives while pharmacists in retail businesses may not advertise their dispensing skill. A com-plication arises from the fact that, under the Medicines Stamp Acts, recommendation of proprietary medicines to medical practitioners did not render such medicines dutiable, a distinction being drawn between this class of people and the general public. If the point raised by your contributor ever reaches the political-pharmaceutical platform, the ruling under the Acts repealed in 1941 will no doubt be mentioned. Another suggestion in the same article is that there is "a strong case for a new qualification for sales assistants on drug counters to work under the supervision of pharmacists." That suggestion seems to be more speculative than practical. However that may be, I think pharmacy had better settle first the question of dispensing technicians.

Study of Pharmaceutical History

The July Council meeting of the Pharmaceutical Society has brought the welcome announcement (p. 46) that at last the study of pharmaceutical history is to be taken in hand systematically; a longstanding blot on British pharmacy is thus on the way to removal. Historical studies of this kind continue in other countries. Shortly before your issue of July 12 arrived I received the second of the new series of monographs sponsored by the School of Pharmacy of Wisconsin Univer-This study, written by Mr. Alex Berman as a thesis for a degree, is entitled "The Thomsonian Movement and its Reation to American Pharmacy and Mediine." Probably every student of American history knows, if only vaguely, something about the career of Samuel Thomson [1769-1843], founder of a movement that

hardly merits the name of system; he receives due notice in the Kremers-Urdang History of Pharmacy. But Mr. Berman has so ably and so fully presented this amazing episode in the social history of the United States that his bibliography extends to more than two pages. The parents of Thomson were "impoverished farming people," and as a youth he worked on his father's land. Comparatively early in life he began to experiment with herbal treatment on his family and neighbours; he soon persuaded himself that he had "a gift" in that direction. With entire self-confidence he wrote, somewhat later: "... if I possessed such a gift, I had no need of learning, for no one can learn that gift." As time went on he took out patents and established agencies; the success of his propaganda led to the formation of national conventions of his followers. He forbad courses of tuition; this obstinacy caused, as might have been expected, fission among Thomsonians and the eventual extinction of the movement.

Thomsonianism and Pharmacy

An account of the impact of Thomsonianism on American pharmacy fills several of Mr. Berman's pages. Sales of his drugs and specifics were at first confined to agents; but other dealers, "attracted by lucrative possibilities, continued to crop up as quickly as Thomson could put them down." One of the formulas is headed "Composition; or, Vegetable Powder."
This, consisting of powdered bayberry root, ginger, cayenne and cloves, so closely resembles other formulas for composition powder that one wonders whether Thomson was the originator or not. On the same page of the monograph a recipe for a cancer plaster is printed. Such ignorance as this type of medicament reveals is the outcome of fanaticism rather than of deliberate quackery. There can be little doubt that the dosing of Thomson's patients with ginger and cayenne resulted in cases of gastroenteritis; and other treatments of his may have done other damage. From his belief that he had a gift of healing arose his totalitarian mode of life. In a footnote the author cites a statement that during the nineteenth century there were at least nine medical sects in the United States. None of the other eight, however, gained the fame-or notorietyof the Thomsonian. **Xravser**

NEW COMPANIES

WEST & SENIOR, LTD. (P.C.).—Capital £1,000. To merchant and manufacture chemicals, colours, etc. Harold W. West and Robert H. Senior, directors. R.O.: Pendleton Mills, Croft Street, Pendleton, Salford.

Jack H. Stern (Chemists), Ltd. (P.C.).
—Capital £6,000. To acquire the business of Frank Jones (Chemists), Ltd., 13 Westbourne Terrace, Shiney Row, co. Durham, Jack H. Stern, M.P.S., Raphael L. Richman, M.P.S., Fanny Stern and Errol-June Grossman, directors,

COLGATE-PALMOLIVE (IRELAND), LTD. (P.C.).—Registered in Dublin. Capital £100,000. To manufacture and deal in soap, and cleansing compounds of all kinds, etc. Mary Sheehy, 10 Mount Street Crescent, Dublin, and James Maybury, subscribers. First directors are not named.

C'REGAN'S PHARMACY, LTD. (P.C.).—Registered in Dublin. Capital £1,000. To carry on the business of wholesale and retail chemists and druggists, etc. John J. O'Brien, Leap, co. Cork, Charles O'Regan, and Charles K. O'Regan, subscribers. First directors are not named.

Liquid-Solid Separations, Ltd. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in machines for handling suspensions of solids in liquids for all purposes, etc. First directors are not named. Solicitors: Ingledew & Co., 136 Minories, London, E.C.3.

TRIDE, LTD. (P.C.).—Capital £100. To carry on the business of dealers in all kinds of chemical preparations, analytical and research chemists etc. Herbert Holmes and Ethel Holmes, directors. R.O.: 192 Windsor Lane, Burnham, Slough, Bucks.

H. Tiffen & Son (Bournemouth), Ltd. (P.C.).—Capital £3,000. To carry on the business of manufacturers of and dealers in insecticides, cleansing fluids, disinfectants, etc. Frank V. Tiffin, and Wilfred G. Barton, directors. R.O.: 37 St. George Street. London, W.I.

Company News

STEPHEN SMITH & Co., LTD.—A dividend of 10 per cent., less tax, is proposed on ordinary capital for year ended April 30. (In the five preceding years the dividend was 15 per cent.). Net amount available for appropriation is £22,687 (against £42,058 in previous year).

BUSINESS CHANGES

CUXSON, GERRARD & Co., LTD., Oldbury. Birmingham, have transferred Mr. R. E. Barley to their Eastern Counties territory.

EVANS MEDICAL SUPPLIES, LTD., have formed a Swiss company under the name of Evans Medical, A.G., in Berne,

ALFRED FRANKS & BARTLETT, LTD. have removed to 226 Gray's Inn Road London, W.C. I (telephone: Termina 9865).

Amblins Sales Co., Ltd., have removed to Old Medina Baths, Kings Esplanade, Hove, Sussex, where they have opened a new perfume factory.

THOMAS ARBUCKLE (cork and bottle cap manufacturers), have removed to a new factory and office at Napier House 646 Govan Road, Glasgow, S.W.1.

WATFORD CHEMICAL CO., LTD., 30 Baker Street, London, W.I, are now represented in North-west England by Gordon & Martin, Ltd., 2 China Lane Piccadilly, Manchester.

LEON DAVIS & Co. (medical bottles and packaging materials) have removed to glaurence Pountney Lane, Cannon Street London, E.C.4 (telephone: Mansion House 3951).

Hough, Hoseason & Co., Ltd., Chape Street, Levenshulme, Manchester, 19, hav been elected to membership of the whole sale section of the Proprietary Article Trade Association.

MR. N. S. E. BROWN, M.P.S., he acquired the business of Mr. A. C. C. Florence, M.P.S., 62 Church Stree Harwich, Essex. He will trade under hown name (see C. & D., July 12, p. 40

Appointments

PHILIPS ELECTRICAL, LTD., Centur House, Shaftesbury Avenue, Londor W.C.2, have appointed Mr. P. A. Ballar Philishave their sales manager.

ARMOUR & Co., LTD., 2 Lindsey Stree London, E.C. I, have appointed Mr. M. F. Schwitzer, A.M.I.Chem.E., manager of their chemical division, Europe.

Universal Metal Products, Ltd Langley Road, Pendleton, Salford, Lanchave appointed Mr. J. G. Wilson their general sales manager; Mr. J. Kenyo their sales manager, plastics division; an Mr. W. Stevenson sales manager, metal department.

MANX HEALTH SERVICE

INTRODUCING the annual budget of the Isle of Man in the House of Keys (Manx Parliament) recently, the LIEUTENANT GOV-ERNOR (Air Vice-Marshal Sir Geoffrey Bromet) stated that provision for the Health Services had been increased by £23,109 to £580,297. Further economies should be achieved, he said, otherwise the Health Services would be endangered.

In subsequent debate, DEEMSTER R. G. IOHNSON thought that stricter control over the cost of prescriptions should be exercised. He wanted to see "something like he old Drugs Committee" set up. reply, MR. T. C. Cowin (chairman of the Health Services Board) stated that a precribing committee had been set up, by loctors working in conjunction with the Board, to investigate prescription costs inder the Service. The Board was conidering the possibility of setting up its own costing bureau. DEEMSTER W. P. COWLEY suggested that membership of he prescribing committee should be conined to members of the Board. "You are sking doctors and chemists to set up a vatch on themselves," he said.

Mr. Cowin replied that prescription eading was a specialised job. A layman vould be a passenger. DEEMSTER COW-EY disagreed. He said that he had been n the old Drug Committee and often ad to criticise a doctor for over-precribing. The article was approved.

DEFICIENCY CHARGES FAIL

T Birmingham magistrates' court recently number of chemists were prosecuted nder the Food and Drugs Act, 938, for offences involving alleged deciencies in halibut-oil capsules. Hedges Chemists), Ltd., Dale End, Birmingham, leaded "Not guilty." For the corporaon it was said that a sampling officer isited the company's pharmacy at 11 Soho load, Handsworth, and bought capsules ne label on which stated that each caplle contained approximately 4,500 interational units of vitamin-A activity. Analys showed that there were in fact 4,040 inrnational units in each capsule. Mr. Ioward Bagnall (city analyst) gave evi-ence that the capsules agreed with the andard laid down in the British Pharmaeutical Codex, but not with the standard id down in the Pharmacopæia. hether he was conducting a campaign

to change the present standards, Mr. Bagnall said he d'd think a change was necessary. He had written articles on the subject and submitted a report to the Public Health Committee.

Mr. Croom-Johnson (defending): "The idea of changing this standard is yours?" —"It is mine, but it may have occurred to other people."

"You are trying to persuade other people?"—"I suppose it is part of my

duties to convince them."

Submitting there was no case to answer, Mr. Croom-Johnson said: "What can a manufacturer do but employ only the existing standard?" The magistrates upheld his submission. A similar case against James R. Williams was withdrawn without any evidence being offered. William J. Edgington, 84 Sutton New Road, Erdington, was granted an absolute discharge on payment of 4s. costs, after having admitted selling halibut oil that was below the standard at present laid down. Stating that it was one of the first cases of its kind to be brought, Mr. Croom-Johnson said: "I feel a great deal of consideration is due to people like Mr. Edgington who are caught in the first blast." In similar cases William C. Nicholas, 76 Lozells Road, Birmingham, and Selvester Toy, Ltd., Birmingham, were granted absolute discharges on payment of 4s. costs each. A case against Walter Martin, 139 Golden Hillock Road, Small Heath, Birmingham, was dismissed, but his suppliers, John Durant, Ltd., manufacturing chemists, were fined £5. Cases against Timothy Whites Drug Stores, Ltd., and Southall Bros. and Barclay (1935). Ltd., were dismissed. Raynes Dispensing Chemists, Ltd., Birmingham, were granted an absolute discharge and ordered to pay 4s. costs in a similar case.

IN PARLIAMENT

MR. W. T. WILLIAMS asked the President of the Board of Trade, on July 10, what action he would take, in view of a growing practice of branded goods manufacturers to fix retail prices for their goods following the abolition of price control, to see that profit margins which would unduly inflate retail prices would not be imposed. MR. P. THORNEYCROFT (President of the Board of Trade) said he had seen no evidence that there had been an increase in the practice of retail sale price maintenance in respect of goods from which price controls had been removed.

MARRIAGES

COUSTON—LINTON.—At the New Restalrig Church, Edinburgh, on June 28, Edwin Thomas Couston, Edinburgh, to Jean Linton, M.P.S., 35 Paisley Avenue, Edinburgh, 8.

JOHNSON — FOSTER. — At Old Clee Church, Grimsby, on July 10, Thomas Johnson, M.P.S., 40 Carver Street, Sheffeld, 1, Yorks, to Barbara Mary Foster, M.P.S., 414 Heneage Road, Grimsby.

DEATHS

Bennett.—At Stuston, Suffolk, recently, Henry George Bennett, M.P.S., 1 Church Street, Framlingham, Suffolk, aged seventy-five. Mr. Bennett is survived by his widow, three sons and a daughter.

DOERR.—On June 10, Mr. Walter Doerr, proprietor of Uhland's Pharmacy, Württemburg, Germany. Mr. Doerr's pharmacy was the subject of an illustrated article in The Chemist and Druggist (1950.II.80).

IRVINE.—On June 12, Sir James Colquhoun Irvine, K.B.E., LL.D., F.R.S. (Principal for thirty - two years and Vice-Chancellor of St. Andrews University), aged seventy-five. His name is associated with research on the chemistry of carbohydrates, which he began in 1901, and which placed the constitution of sugars and other compounds on an exact basis. Under his direction at St. Andrews the methylation of sugars was elaborated. He was appointed to the chair of chemistry in 1909, at the age of thirty-two.

Massey.—Recently, Mr. Charles Frederick Massey, M.P.S., 121 Burton Street, Leek, Staffordshire. Mr. Massey qualified in 1938.

RIDDELL.—At 198 Wilton Street, Glasgow, N.W., suddenly on July 7, Mr. James Hamilton Riddell, Glasgow. Mr. Riddell qualified as a chemist and druggist in 1922.

SIMPSON.—On June 25, Mr. James Simpson, M.P.S., 3 Delaunays Road, Higher Crumpsall, Manchester, 8, aged fifty-one.

WADDINGTON. — On May 15, Mrs. Dorothy Constance Waddington, M.P.S., 85 Queen Street, Newton Abbot, Devon. Mrs. Waddington qualified in 1925.

WILMAN.—Recently, Miss Gertrude Wilman, M.P.S., Mersey Bank, Hadfield, Manchester, Lancs. Miss Wilman qualified in 1898.

INQUESTS

Child Takes Cardiac Tablets.—A verdict of accidental death was returned by the Belfast Coroner recently at the inquest on a child aged twenty-two months who died after taking tablets prescribed for an adult with heart disease. The coroner warned that all drugs of that kind should be kept out of children's reach.

Home-made "Cure."—A home-made rheumatism preparation was the cause of death of a sixty-five-year-old woman on whom an inquest was held in Bridlington, Yorks, recently. The preparation contained sulphur, cream of tartar, and saltpetre—a substance of which the woman had been getting "perhaps four times the maximum dose." A verdict of death by self-administration of a home-made remedy was returned.

Coroner Urges Aspirin Warning.—Recording a verdict of death by misadventure at West Bromwich coroner's court recently on a woman who died through taking an overdose of aspirin tablets, the coroner said there should be a warning notice on all bottles of aspirin tablets to the effect that the contents are dangerous if taken in excess. He expressed the hope that makers and chemists would see what they could do to "help the public, and protect lives" by affixing warning notices.

Pharmacist Found in the Sea.—At an inquest at Bridlington on May 9 on Mr. William White Brand Bell, M.P.S., St. Margarets Avenue, Leeds, whose body was found on the beach at Flamborough Yorks, on May 6, the East Riding coroner recorded a verdict of found drowned with insufficient evidence to show how he came to be in the sea. The dead man's widow said that her husband had been upset by a prosecution now finished involving her husband's firm but not himself.

Anti-alcoholism Tablets.—At an inquest at Chelmsford recently on a forty six-year-old woman, a doctor stated that he had prescribed for the woman a drug used to cure alcoholism. After two dayshe became ill, later collapsed in a coma and died from bronchial pneumonia. The tablets were harmless unless alcohol wataken with them. Persistent taking of alcohol with the tablets produced a narcosis resulting in coma. The woman's husbane and daughter said that so far as they knew she did not take alcohol with the tablets A verdict of misadventure was returned.

PERSONALITIES

MR. RAYMOND MULLINDER, F.R.I.C., s been appointed public analyst for the est Riding of Yorkshire.

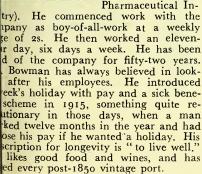
MR. R. H. J. EDYVEAN, M.P.S., Mart Street, Lichfield, has been installed sident of the Lichfield Rotary Club.

Mr. HARRY J. LOYND (president of rke, Davis & Co., recently received the norary degree of Doctor of Science, iladelphia College of Pharmacy and ience. Mr. Loynd joined Messrs. Parke, vis in 1931, and has been its presi-nt since April, 1951.

Mr. John Annesley Myers, Ph.C. ief pharmacist, Bradford Royal Infirm-) has obtained a diploma in public ninistration at Leeds University. Mr. ers was educated at St. Bede's Gramr School, Bradford, and at the Bradd Technical College, where he is a t-time lecturer in pharmacology. alified as a chemist and druggist in 1937 l as a pharmaceutical chemist in 1940.

Mr. William Powell Bowman (goving director, Goodall, Backhouse & Co.,

Ltd., Leeds) celebrated his ninetieth birthday and his seventy - fifth year with the company on June 22. Mr. Bowman was connected with drug trade up to 1937 and was a prominent member of the former Wholesale Drug Trade Association (now the Association of British



MR. WALTER C. D. BAIN, M.P.S., who was recently elected president of the Aber-

deen Pharmaceutical Association, is also vice-chairman of the local Pharmaceutical mittee and a member of the execu-tive of the Aber-deen and North-Scottish eastern Branch of the Pharmaceutical Society. He entered the drug trade in 1927 and, as an apprentice at Victoria Road, Aber-



deen, was transferred, along with the business, from Mr. A. P. Wallace to Mr. A. Mitchell. After passing the Preliminary Scientific examination he worked as an assistant in London. He passed the Chemist and Druggist Qualifying examination in 1933, and after a period of locum work managed a pharmacy in Forfar. In 1934 he purchased a business at St. Clement Street, Aberdeen, and in 1944 pur-chased a second at 99 Victoria Road. Both pharmacies are in the harbour area and because of that Mr. Bain's businesses include a considerable amount of shipping work.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Wednesday, July 23

LIVERPOOL CHEMISTS' ASSOCIATION and BRANCH, Speke Hall, Liverpool, at 7.30 p.m. Visit. Cost 4s. 6d. per head. Application to Mr. J. Farrer Barnes, 38 Banks Road, Liverpool, 19.

Thursday, July 24

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Royal Forest Hotel, Chingford, Essex, at 2.45 p.m. Conducted walk in Epping Forest. Bald Faced Stag Hotel, Buckhurst Hill, Essex, at 6 p.m. Tea at 2s. 6d. per head. Reservations from Mr. S. Robinson (telephone: Seven Kings 7449; business hours, Ilford 0955). Bald Faced Stag Hotel, at 7 p.m. Mr. C. W. Maplethorpe (a member of the Society's Council) on "Pharmacy in Australia and New Zealand."

NORTH LONDON PHARMACEUTICAL ASSOCIATION and NORTH METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Tally Ho Corner, Finchley, London, N.3, at 1.20 p.m.; and Nag's Head, Holloway, London, N.7, at 1.40 p.m. Visit to Ciba Laboratories, Ltd., Horsham.

TRADE NOTES

With or Without Chlorophyll.—On other pages in this issue International Chemical Co., Ltd., Chenies Street, London, W.C.I., feature a new variety of Kolynos toothpaste: Kolynos with chlorophyll. Standard Kolynos remains available.

Ten-blade "Dispenser."—Gillette Industries, Ltd., Great West Road, Isleworth, Middlesex, announce the introduc-



tion of a new ten-blade blue Gillette "dispenser" with built-in used-blade compartment. The new dispenser, which will be on sale to the public from August 15, and is of blue lacquered aluminium with white lettering, is constructed to give complete protection to the unwrapped blades, while presenting them for immediate use at a flick of the thumb. A display carton of twenty dispensers is illustrated.

Double-life Nailbrush.—Addis, Ltd., The Brushworks, Hertford, are putting on the market a new Grippy nailbrush with a reinforced centre (two extra rows down the middle) that it is claimed will last twice as long as any other nailbrush. The brush is available in four pastel shades.

A Bathroom Fitment. — Perlose, Ltd., 140 Highgate, Kendal, Westmorland, offer a neat fitment for use in a bathroom, on a kitchen cupboard or indeed in any room in the house—the Perlose stocking drier. When not in use, the fitment lies against the wall, forming a leaf-like ornament in one of eight colours.

Holiday Closings.—Herts Pharmaceuticals, Ltd., Welwyn Garden City, announce that their factories will be closed for annual holiday, August 1-15. A skeleton staff will be operating at the company's head office at Welwyn Garden City, and at its midlands and northern depôts for

the dispatch of urgent orders.—The worl of Howards & Sons, Ltp., Ilford, Esse will be closed from July 19 to August inclusive, for the works' annual holiday.

At the Olympic Games.—By arrang ment with the British Olympic Assocition a supply of toilet soaps, talcum powder and other toilet requisites has beepresented by H. Bronnley & Co., Lti Devonshire Works, Duke's Avenue Lodon, W.4, to each member of the Britis Olympic team visiting Helsinki.—Thofficial photographers for the Olymp Games, Finland, have selected May BAKER, Ltd., Dagenham, Essex, for the eclusive supply of chemicals used in the processing of their photographs.

Bonus Offer.—Throughout August ar until the end of September, Forhans toot paste for the gums is being offered by the distributors, Fassett & Johnson, Ltd., Clerkenwell Road, London, E.C.1, bonus terms of twelve invoiced as eleve with additional quantity discounts buildin up on-cost profit for the chemist to ow 65 per cent on 6-doz, terms Now in modernised pack, the product incorporat the "special formula," making it nece sary to stock only one Forhans line two sizes. Advertising is in progress.

New Display Outers.—Two new diplay outers have been added to the diplay material available for Jeyes' flu



and Jeypine. The Jeypine outer is in ye low and holds I doz. newly designed 6-o bottles. On another page appears a list of the prizewinners in the limerick compet tion recently organised by the manufacturers, Jeyes Sanitary Compounds Co-Ltd., Chigwell, Essex.

NEW PRODUCTS AND PACKS

100-mgm. Vitamin B₁ Tablet.—The ritish Drug Houses, Ltd., Graham Street, Ity Road, London, N.1, have added to he range of tablets of vitamin B₁, B.D.H., tablet containing 100 mgm. aneurine ydrochloride.

Soap "Lemons."—H. Bronnley & Co., td., Warple Way, London, W.3, are offer-



ing their lemon soaps in a de luxe quality and presented in a wooden box with lid that folds back to show stencilled lettering, and lined with green and transparent paper to give the realistic effect of a box of lemons. Each 3-oz tablet bears a printed transparent

und. The soaps are manufactured from e company's best quality superfatted use.

New Lipotropic Product.—C. L. Bendrd, Ltd., Great West Road, Brentford, iddlesex, are introducing a new lipopic product called Hepathyol, and conining dl-methionine and choline bitarate. It is presented as capsule-shaped gar-coated tablets in containers of fifty d bottles of 250 tablets,

A New Perfume. — Picot, Ltd., 191 ammersmith Road, London, W.6, have troduced their first new perfume in four ars: Pagan, in four sizes (trial, \frac{1}{4}\cdot oz., and modèle de luxe). The Pagan lour scheme is "bright scarlet, jet-black d burnished gold," and the perfume is scribed as "sultry, disturbing, intimate, mulating, daring, wicked."

Laboratory Glove. — James North & ns, Ltd., Hyde, Cheshire, have introced polyvinyl chloride fabric-supported oratory gloves, for use by personnel in ndling corrosive chemicals, or testing uipment or pilot-scale plant. The glove durable yet permits the sensitivity of ich essential for laboratory operations bulletin describing the glove is available e on request, and prospective users are ited to avail themselves of the comny's technical advisory service.

Addition to Fatty Acid Range.—Hess oducts, Ltd., 4 Albion Street, Leeds, 1,

announce the addition to their range of fatty acids of highly pure behenic acid, a saturated fatty acid of C 22 chain length and having the following approximate tests and composition:—

late tests and composition:—
Acid value 160-65
Saponification value 160-65
Iodine value 3 max.
Titre 74-76°C.
Melting-point 76-78°C.
(complete fusion,
capillary tube)
Unsaponifiable 3 per cent. max.

90 per cent. Behenic 8 per cent. Stearic

2 per cent. Unsaponifiable

The new compound should be of interest to makers of waxes, chemical derivatives, metallic soaps, textile compounds, lubricants and any other products where a high melting-point or long carbon-chain length are necessary. Samples and full particulars can be obtained on application to the company.

Interchangeable Package.—Glaxo Laboratories, Ltd., Greenford, Middlesex, have introduced an interchangeable package for their penicillin and streptomycin products: a reduced-size pack that cuts out the waste



of individually wrapping ten previously separate cartons. The new pack accommodates two simple basic containers, and the containers are fully interchangeable between several products and various strengths. The plain carton is in grey and white, and the individual packs are identified by a printed strip of card that holds two cartons together, and by other cards two cartons together, and separate colour for each product, the product card fitting into the carton and being read through elliptical "windows" in the outer package.

PHOTOGRAPHIC NOTES

All Home Ciné Requirements.—Pathescope, Ltd., North Circular Road, London, N.W.2, are "always at the service of the photographic dealer" for all home ciné apparatus and supplies.

Films 129 from Stock.—Premier Photographic Supply Co., 93A Shakespeare Walk, London, N.16, offer from stock orthochromatic films size 129. Terms are given on another page.

Wholesale Photo Supplies.—Jonathan Fallowfield, Ltd., 74 Newman Street, London, W.I., are wholesalers of cameras and other photographic supplies. Popular cameras of which they are stockists are illustrated on another page,

"World's Finest" Ciné Camera.—Cinex, Ltd., 9 North Audley Street, London, W.I. claim that the Swiss precision-built Bolex L8 ciné camera, of which they are sole wholesale distributors in the United Kingdom, is "the world's finest." Chemist photographic dealers are invited to write for full details of trade terms.

New Panchromatic Film.—A new panchromatic film, the Dufay 35-mm. super 50 pan is available for the present in cassettes, from Dufay, Ltd., Boreham Wood, Herts. Fine grained, it has a speed of Weston 50, and gives excellent gradation. The film will shortly be available in darkroom loading refills and daylight loading refills.

A Compact Movie Camera.—The G.B.-Bell & Howell Sportster 8-mm. movie camera illustrated and described on another page is manufactured by G.B. Equipments, Ltd., 52 Mortimer House, 37 Mortimer Street, London, W.I. Model 605 has a Taylor-Hobson coated lens, four operating speeds, built-in exposure guide and automatic footage dial. It weighs only 24 oz.

35-mm. Developing Tank.—A new model of the Paterson 35-mm, developing tank, while retaining the efficiency and ease of loading of the previous model, has been redesigned and now incorporates, like the Paterson Major, a two-way agitation feature. The light-trapping and pouring systems have been improved, and the boss in the body of the tank has been reshaped to, enable the spiral to be freely rotated. Another change in the design of the spiral is that, whereas the two halves of the original spiral could be completely revolved, there is now a stop which renders

it possible to oscillate the spirals for on a quarter turn. As with the original tar the inner ratchet does not become effetive until the film has been drawn abor half-way into the spiral and at this poisome slight resistance may be noticed, the instructions are carefully observed, the operator will be able to load the film free to the centre of the spool. The makers the tank, R. F. Hunter, Ltd., 51 Gray Inn Road, London, W.C.1, have alsmade available thermometers special made to fit the Paterson tanks.

Recent Accessories.—The following an among items introduced recently by Ilford Ltd., Ilford, Essex:—

FILM-DEVELOPING SHEATH.—For ame teurs who use 4 x 5 in, flat films the Ilfor stainless-steel developing sheath is available. The film is held by grooves of three sides, so loading consists simply sliding the film into the grooves. Developing may then be carried out by eith dish or tank; the sheath would slip in a developing rack in the same way as glass plate.

DISH IMMERSION HEATER.—A fault cor mon to many immersion heaters for u in dishes is that they may easily fall be knocked over because they have su a narrow base upon which to stand. Th fault has been eliminated in the late Ilford heater, which has been made wi a wide "stirrup," in which the heat element is located. The heater may safely used in solution with a depth shallow as \(\frac{3}{8} \) in., while the dish itself m be as small as 4 x 8 in. The eleme is ceramic-embedded and is also tota enclosed.

LIGHT-WEIGHT TRIPOD.—A range light-weight Danish tripods includes 4-, and 7-section models of first-class desi and finish. Paradoxically, the tripod whi stands highest (approximately 4 ft.) where the tripod whist stands highest (approximately 4 ft.) where the tripod whist stands highest (approximately 4 ft.) where the tripod is shortest when closed, being only 10 long. The 5-section tripod extends 45½ in. (11½ in. closed) and the 4-sect model to 46½ in. (13¾ in. closed). To screw in the head of the tripod is revisible by removing a small screw in centre, so that it may be quickly may to suit either English or Continer bushes. The sections are of duralum treated so as not to stain the hands. Reper feet give the tripod a sure grip on ground.

PROPRIETARY ARTICLES TRADE ASSOCIATION

The quarterly meeting of the council f the Proprietary Articles Trade Assoiation was held in London on July 10, he president (Mr. J. E. Goodall) in the hair. On the motion of The President, he council resolved to send congratulations of Mr. W. J. Tristram on his election s president of the Pharmaceutical Society, and to Mr. D. W. Hudson on his election is chairman of the Executive of the

lational Pharmaceutical Union.

At the invitation of the council Dr. Aron a French pharmacist and head of a Paris harmaceutical manufacturing laboratory) and Mr. H. N. Linstead (a secretary of he Pharmaceutical Society) attended the eeting and a luncheon which preceded. The President said that Dr. Aron had hown to him and other British pharmasts attending the recent pharmaceutical inference at Vichy great kindness and ospitality. Dr. Aron had promised to ll them something about the French rice - protection system. The council ould welcome any observations from Mr. instead on Parliamentary and political pects of matters of interest to the Assoation.

punterpart in France

Dr. Aron said that prices of pharmauticals were fixed in France as in itain. The French Syndicat Général de Réglementation (S.G.R.) was similar to e P.A.T.A. There were, however, difrences between the two systems. G.R. was a union of manufacturers of narmaceutical products united for the feguarding of their rights as proprietors articles covered by trade marks. French w allowed them to take measures to prerve the value of their trade marks and particular to fix retail prices for their oducts and to take legal proceedings if tailers did not respect them. French anufacturers had, of course, to make blic their intention to fix their prices. label had to be affixed to the individual rtons of their products, stating "vente prix marqué obligatoire" (sold at the mpulsory marked price). The price was ways printed on the carton, generally ar that label. The pharmacist's work s thus made easier. It was not necessary consult price lists.

Price fixing was not all that manufacers asked of their union. Their concts with agents abroad often stated that

the agent must be the sole importer of their products. That was why the stamp of the S.G.R. bore the words "Revente interdite a l'exportation" (it is forbidden to sell this product for export). The prices were, in fact, now completely respected: even the French national health system, as well as the public, paid them, which he understood was not the case in England. That was probably because the price was printed on the articles, and was therefore accepted by the public as something which could not be altered. The system of fixing prices in France was now very secure and the S.G.R. had been approached by pharmacists in several countries of the French Union to extend the system to their countries. The system had been introduced in Tunisia a few weeks previously. That was proof of the value of the services rendered by the association. The Presi-DENT thanked Dr. Aron for his address. A member asked whether the secretary had any information from New South Wales on the protection of goods bearing a registered trade mark. Mr. H. E. CHAPMAN said that, having noted a reference in the annual report of the P.A.T.A. of New South Wales, he had written to their secretary for fuller information. He had been informed that the Australian Federal Government was being pressed to reintroduce a Trade Marks Law Amendment Bill which had had a first reading in the Commonwealth House of Representatives in 1940 shortly before the dissolution of the Australian Parliament. Clause 53 of that Bill provided that the sale below the fixed price of goods bearing a registered trade mark would constitute an infringement of the trade mark.

Present Political Position

MR. LINSTEAD gave his personal assessment of the political position in relation to resale price maintenance and kindred matters and was thanked by THE PRESIDENT and council for his interest in their affairs and for his advice.

The council noted with appreciation a letter which the secretary had received from a firm of retail chemists who had informed him previously that they were closing their business, and had asked for assistance in regard to the disposal of stocks of P.A.T.A. goods. The letter stated that following the visit of a P.A.T.A. representative the firm had com-

municated with eighty manufacturers, and with one or two exceptions, had received helpful and generous terms. That had avoided the disturbance to the trade which would have arisen had they been forced to offer them at reduced prices.

The council remitted to the executive committee for detailed examination a counsel's draft of a Definitive Trust Deed recording the purpose for which the Defence Fund was held. The Executive was also requested to consider and report its views on the opinion of Mr. H. Glyn-Jones, Q.C., on a matter of procedure relating to the Association's policy. Mr. H. Marshall (council's representative on the N.P.U. Distress Fund for Proprietor Pharmacists) reported on the state of the Fund and the cases in which assistance had been given. The council endorsed the view of the executive committee that

it was not appropriate for the P.A.T.A. to be a signatory to a memorandum on "irregular and unfair trading" which some trade organisations proposed to circulate.

Hough, Hoseason & Co., Ltd., Manchester, were elected to membership of the Wholesale Section. The Secretary reported that P.A.T.A. prices were being generally observed. Very few retailer were cutting prices of P.A.T.A. articles Some complaints regarding price cutting of toilet preparations had been received After representations most cases had been satisfactorily settled. A special case causing concern to retail members in the are concerned was receiving attention. Durin the past quarter the Association's outdoo staff had made 630 investigation calls an some 400 list purchases. The report was approved.

PHARMACEUTICAL SOCIETY OF IRELAND

The Council of the Pharmaceutical Society of Ireland met in the Society's new headquarters at 18 Shrewsbury Road, Ballsbridge, Dublin, for the first time on July 8, Mr. J. P. Kissane (president) in the chair. Also present were Messrs. M. Costello (vice-president), H. P. Corrigan (treasurer), G. C. O'Neill, T. C. Scott, D. J. Kennelly, P. F. McGrath, T. B. O'Sullivan, P. Fullam, A. A. Toher, M. Power, F. J. Robinson, C. J. Cremen, and Senator F. Loughman.

The President welcomed members to their new home, and hoped they would spend many happy years there together. He also addressed a welcome to a new member of Council (Mr. D. J. Kennelly). The president thought the Council had made a wise choice in co-opting Mr. Kennelly, a young and progressive pharmacist. Mr. Kennelly thanked the president and the Council.

The Official Organ

A letter was read from Mr. C. A. Vian (managing director, Morgan Brothers (Publishers), Ltd.) confirming the terms reached between the Council's representatives and the Publisher of the Chemist and Druggist under which the journal would be supplied to members of the Society for a period of five years. Mr. Cremen asked if such an agreement would prevent them at any future time from separating the membership and journal subscriptions. The President said the agreement was in the nature of a "gentle-

man's agreement" and assumed that eac member of the Society would receive th official organ, which would not be official unless taken by all members. In Britai a combined subscription was introduce because they found it more satisfactory Mr. O'Nell said that members of th Journals Committee felt they should have an official organ, since only in that wa could any matter of importance be brought to the notice of all members. There was no pressure whatever put upon them to accept any terms by the publishers of the C. & D. The representative they sent ovehad put all the facts frankly before then

MR. COSTELLO said that the price we the principal matter discussed. MI CREMEN said from that point of view the agreement was a very good one, on which the Committee were to be congratulated. The President said he felt happy about the agreement.

MR. O'NEILL told MR. ROBINSON that the price was not dependent on the having a five-year agreement. M McGrath said he was in favour of the agreement. MR. Cremen said that the were a few members of the Society whonly wished to take a home-produce journal. Subject to that, and to the fathat they could at any time make the subscriptions separate, he was in agreement with the decision reached. M O'Neill agreed and said it was only rigled and proper that they should make the position clear at the outset. On the motic of the President, seconded by Mr. Co

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toan, the Council passed unanimously a esolution agreeing to enter into an agreement for the supply of The Chemist and Druggist for a period of five years from

anuary 1953.

Letters of thanks were read from the rish Pharmaceutical Students' Association or a Council grant of £25 and from the ecretary of the Camogie Club for a subcription of £5.

приоп от £5. Тне Registrar (Mr. James G. Cole-

nan) reported on the deaths of Messrs. Villiam Kelly, L.P.S.I., and William J. Hamilton, R.D. The applications of Mrs. J. McMorrow (née Kennedy), L.P.S.I., nd Mrs. M. Calnan (née Hinchy), Assisant, who wrote submitting marriage certicates and requesting change of names in the registers, were granted. The reports of he Law, Schools, and Certificates and leclarations Committees were submitted and approved. The last-named committee's report stated the sixty-nine candidates ad entered for the July Licence examination, of whom nine were dispensing chemit and druggist candidates. Thirty-two andidates entered for the Assistants' samination.

xamination Regulations Approved

Visitors were appointed for the July icence examination. In a letter approvig the Society's new examination regulaons, the Department of Health stated at the Minister assumed students would bt be called upon to answer questions on bjects in which they had not been inructed. THE REGISTRAR said that a reply ad been sent to the Department's letter timating that the Council had given uch time to discussion of the difficulties ising out of the changes embodied in the w regulations. It had been decided that w subjects would be introduced gradualand that sufficient questions would be t to enable candidates to pass in their pers by answering only questions in hich they had been instructed. Even hen new subjects were made compulsory e examiners would be asked to allot the eater proportion of marks to questions subject matter in the present syllabus. udents registered on the Preliminary gister after July 31 would not present by difficulty.

The Council agreed to accept the invitain (see C. & D., June 21, p. 840) to be presented at the centennial convention of e American Pharmaceutical Association, d deputed the president to attend.

The Licence certificate of Mr. John P. uffy was signed and sealed. Dr. John

C. Dowling was re-elected examiner in pharmacy to the Licence examination for the year ending October 31, 1953. The following changes of address were notified:—

Messrs. J. Hanley, L.P.S.I., to 20 Shannon Street, Limerick; D. Hegarty, L.P.S.I., to Galbally, co. Limerick; J. McDonnell, M.P.S.I., to Castlerea, co. Roscommon: J. J. O'Gorman, M.P.S.I., to Johnstown, co. Kilkenny; P. J. Salmon, L.P.S.I., to 91 Rathgar Road, Dublin; and Mrs. E. McMorrow, L.P.S.I., to Church Street, Drumshambo, co. Leitrim.

The following were elected members of the Society: Mrs. Edna Swanton, Messrs, J. W. Garry, T. E. Leydon, P. J. O'Brien, J. O'Neill, and M. J. O'Donnell, Nominations for membership were passed in respect of John Hanley, 20 Shannon Street, Limerick; Michael F. Hayes, 4 Merville Road, Stillorgan, Blackrock, co. Dublin; Daniel Hegarty, Galbally, co. Limerick; Peter J. Needham, c/o P. C. Cahill & Co., 16 Bachelor's Walk, Dublin; and Mrs. E. McMorrow (née Kennedy), Bridge Street, Carrick-on-Shannon, co. Leitrim.

At question time THE REGISTRAR told MR. O'ROURKE that he had sent in a recommendation to have cortisone sales entered in the prescription book, but he had heard nothing further on the matter. MR. TOHER asked if it were possible to have copies of all examination papers placed on the Council table after each examination. THE REGISTRAR said that that could be

arranged.

ECHOES OF THE PAST

ARTIFICIAL RESPIRATION

From "The London Chronicle or Universai Evening Post," April 21 to 24, 1759. LAST Friday night a poor woman threw herself into the New River at Islington, by Mr. Pullen's. Two gentlemen who were passing along, hearing something plunge into the water, on searching discovered her, and got her out, to appearance dead; but by rolling her on the bank with her head downwards, to discharge the water, and then taking her to a house where she was wrapt in blankets and put between two featherbeds, she was recovered, and the next morning able to speak; tho' when taken out of the river she gave less signs of life than the woman taken out two days before, as was advertised, and whose corpse is owned. The above poor woman will not acknowledge her attempting to drown herself, and says she does not know how she got into the river; but she owns she had not any thing to eat for four days before.

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INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

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F "99"—available in capsule, liquid and ointment forms—is a concentrate of the active isomers of Linoleic and Linolenic acids, of the highest achievable purity and standard ized biological activity.

It is indicated in skin disorders due to essentia fatty acid deficiency of dietetic or "conversion' origin, i.e., chronic furunculosis, eczemas o various types including infantile eczema an in some cases of acne. It is also excellent in the healing of all wounds free from seriou infection—particularly leg ulcers. Sufficien success has also been reported to warrant it use—as an unsaturated substance—in the treatment of Psoriasis.

F "99" has no N.F. equivalent, is not advertised to the public and may be prescribed of EC10. The average net weekly cost is 3/6

Literature on request.



International Laboratories Lt Dept. PA20, 18 Old Town, London, S.W.

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Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire.

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Health Hazards of Automatic Vaporisers

However attractively efficient may be "automatic" methods of disseminating insecticidal compounds, their adoption must be restrained until everything is known that can be known about their possible effects on human beings. That is the moral of a second report to the council on pharmacy and chemistry of the American Medical Association by its committee on pesticides ("Journal of the American Medical Association," 1952.149.367-69).

The committee cites a number of cases of poisoning, involving such effects as generalised urticaria, peripheral neuritis, nausea, eye irritation, etc., ascribable to the use of automatic, thermostatically controlled vaporising devices, manually controlled insecticide generators, "make-shift" (electric-lamp) vaporisers, etc. The risks referred to are of two general kinds: direct action upon persons working or living in places in which the vaporised chemicals may be breathed or deposited on the skin, and deposition of the chemicals upon foodstuffs that are subsequently eaten. may be complicated by the possibility that the method of dissemination causes chemical changes in the insecticidal preparations, and it is in fact suggested that polymerisation occurred in one piece of apparatus involved in one of the cases investigated and that acrid fumes in another case were he possible result of chemical alteration of the insecticide by contaminants in the mixture, by the metallic container, or by overheating. Apart from chemical changes, there were observed risks of uneven distribution with ultimate recrystallisation on exposed surfaces.

The commercially available devices are listed as "automatic, thermostatically controlled and manually controlled electric vaporisers which operate continuously," insecticide-impregnated wicks which are ignited in closed rooms in food-processing establishments, and insecticidally treated glass filters from which vapours are blown by air currents. From one device investigated the concentration of DDT in the atmosphere, except in the area immediately above the generating unit, was of the order of 0.13 to 1.3 mgm, (0.009 to 0.09 parts per million) per cubic metre of air, while the concentration of lindane (benzene hexachloride) ranged from 0.09 to 0.2 mgm. (0.008 to 0.017 ppm.) per cu. metre. "If," says the report, "the average active person breathes approximately 10 cu. metres of air in an eight-hour period, the maximum theoretical intake of insecticide may be approximately 1.3 to 13 mgm, of DDT or 0.9 to 2 mgm, of lindane during a normal work-day period." Whether those are safe levels has probably still to be determined as part of a wider study of the effects (including cumulative) of DDT, lindane and related compounds on human subjects. Until their safety is established, it would seem wiser to avoid the use of automatic disseminators for applying insecticides, and especially of any that make no pretence of controlling the atmospheric concentration of the substances they vaporise,

Preventive Action Against Rheumatic Fever

In a leading article on July 12, the "Lancet," after pointing out that acute rheumatic fever is a complication of a group-A β -hæmolytic streptococcal infection of the throat, discusses preventive medication and the possibility of its being universally applied to prevent a recurrence in children recovering from rheumatic fever. Work with penicillin showed that it was effective in preventing streptococcal infections and that "early vigorous treatment" could abort those infections quickly enough to reduce the likelihood of subsequent rheumatism. In a group of 1,162 "control"

patients twenty-three (about 2 per cent.) developed rheumatic fever against only one in a group of 1,178 treated with penicillin. Treatment has to be commenced early, but the type of sore throat involved is "usually characteristic enough" to make bacteriological confirmation unnecessary before starting it, and it is put forward as reasonable policy to treat all "moderate or severe" sore throats with penicillin given intramuscularly.

With children recovering from rheumatic fever, a case could be made for continuing chemoprophylaxis until the age of sixteen, but liability dwindles with the passage of time, and "the loss, as well as the profit" of prophylaxis on such a scale must be accounted for. For practical purposes chemoprophylactic measures should be continued for two years, or maybe even up to five, wherein the greatest risk lies. There are still practical difficulties to be overcome in implementing such a policy, since many of the patients would be out-

patients, over whom it is difficult to exercise supervision to the extent of ensuring that all the necessary tablets are taken.

Stop Thief

RECENTLY (see C. & D., July 5, p. 3) the Ulster Chemists' Association requested the Belfast Chamber of Trade to investigate the possibilities of measures to combat the increasing number of thefts from chemists' shops. One important precaution that chemists themselves can take is to remove expensive cameras from their shop windows before closing for the day. That cameras in chemists' windows are a strong temptation to the would-be thief is plainly evident from the number of such cases reported. It is also putting temptation in the way of shop lifters to leave small, but expensive items of photographic and toile merchandise on exposed displays during busy rota periods when the shop may be left unattended while dispensing engage all the attention of the staff.

PRESENTATION TO RETIRING CHAIRMAN

A COMPLIMENTARY luncheon was given in Edinburgh recently to Mr. F. W. M. Bennett on his retirement as chairman of the Pharmaceutical General Council (Scotland). Mr. G. M. C. Stewart, who



succeeds Mr. Bennett as chairman of the Pharmaceutical General Council, presided and, on behalf of the subscribers, presented Mr. Bennett with his portrait in oils and a cheque. The portrait is by Ian Fleming, A.R.S.A., and will hang in the Pharmaceutical Society's House in Edinburgh. Mr. John Anderson (vice-chairman of the General Council), proposing the toast to Mr. Bennett, said that their guest, over a period of forty years, had fought valiantly for

Scottish pharmacy. His leadership had been particularly valuable in presenting their case for remuneration under the National Health Service to an independen Tribunal. The high regard in which Mr Bennett was held by his Scottish colleague was shared by pharmacists in Northern Ireland and by many pharmacists in England. Mr. H. W. GAMBLE (president o the Pharmaceutical Society of Northern In his re Ireland) seconded the toast. ply, MR. BENNETT referred to the full sup port that he had always received from the individual members of the Standing Com mittee and General Council. They had never lost sight of their primary duty, t give an adequate pharmaceutical servic to the public; that had been their idea and their motto.

Mr. Bennett has been chairman of th Pharmaceutical General Council (Scotland) since 1939 and a member of th Pharmaceutical Standing Committe (Scotland) since its inception in 1913 He has also been a member of the Executive of the Scottish Department since 192 and chairman in 1935 and 1936. Mennett, who was born in North Berwich has been in business on his own accour at 238 High Street, Arbroath, for fifty

three years.

CORRESPONDENCE

Letters may be sent for publication under an assumed name, but the correspondent must furnish his real name and address to the Editor

Ag. Menth. Pip.

SIR.—By the April "Ouarterly List of Revised Prices and Amendments of the Drug Tariff" the formula of aq. menth. pip. now requires 154 min. of ol. menth. pip. to the gallon. My experience of trying to incorporate the large quantity of oil (more than double the previously required quantity) is that a lot of it remains in the filter. Considering the cost of oil of peppermint I feel that the formula is an example of inexcusable waste. I am wondering what the experience and opinion of others may be.

PROCRUSTES.

Supporting Action Called For

SIR,—I have recently closed my accounts with two prominent manufacturing chemists. In the first case, I refuse to be coerced into becoming a "soft drink" depot, selling pocket sizes of what was essentially marketed as a medicinal aid. In the second case I cannot believe that a firm of recognised pharmaceutical standing can no longer afford to ignore the glittering prospect of their popular antiseptic being included on the weekly grocery order. My action is but a drop in the ocean—it could easily become a flood. What about it, fellow chemists? Are we to have our professional recommenlations used purely as advance advertising for the grocery and allied trades? We have the C.F. movement to provide the answer to such practices. Why not take full advantage of it?

Scarborough. ARTHUR WALKER.

Endorsing Prescriptions

Sir,—As a pharmacist endorsing several housand scripts a month I should like to nake a few observations on the Joint Pricing Committee's "Advice on En-lorsing Prescriptions" (C. & D., July 12, P. 41):

Paragraph 1. Surely the strength of pethidine tabs (and incidentally all other DDA tabs) must be stated by the precriber. It is illegal for the pharmacist to

imply state what strength was supplied.

Paragraph 8. The fact that prescripions are rarely endorsed is, I think, inlicative of the fact that pharmacists feel hat this regulation is "antiquated." Conidering the large number of different

strengths of tablets available, the appropriate amount of penicillin supplied can be obtained easily. Clause 15 of Part I of the Tariff should be withdrawn.

Paragraph 13. If penicillin oral tablets can be supplied broken from bulk surely the rule regarding the lozenges needs abandoning. The oral tablets are, I believe, far more likely to lose their strength after the original package has been opened.

London, N.W.io. S. J. TURNER.

NEWCOMER'S NOTEBOOK

11.—Statutory Committee
The Statutory Committee of the Pharmaceutical
Society is the disciplinary committee of the Society

It may direct that a pharmacist's name shall be removed from the register; that a body corporate shall cease to be an authorised seller of poisons; that any or all the premises of a body corporate shall be removed from the register of premises and disqualified for any period from regis-tration; that representatives of a pharmacist [deceased, etc.] shall cease to be authorised sellers of poisons or entitled to use any title, emblem or description restricted under the Pharmacy Acts, 1933 and 1941.

The Committee is called together by the chairman after he has considered "information" that a registered pharmacist or his employee, or member of the board (or officer or employee) of a body corporate, or the representative of a pharmacist (or employee of the representative), or a person applying to be registered as a pharmacist, "has been convicted of such a criminal offence, or been guilty of such misconduct" as would render him unfit to be on the register; or that a body corporate has been convicted of an offence under the Pharmacy Acts.

The chairman has a certain discretion in calling the Committee together. He may (after con-sulting other Committee members if he wishes) decide that the case shall not proceed further, or direct the secretary to reprimand and caution the person affected. The Committee may extend the statutory period during which representatives of a pharmacist may carry on the business. An appeal may be made to the High Court against a decision of the Committee.

The Committee comprises: -A chairman with practical legal experience appointed by Privy Council; five other members appointed by the Council; lot other memoers appointed by the Council of the Pharmaceutical Society, one of whom must be a pharmacist resident in Scotland (none of the others need be members of the Society or its Council). Any member may be removed from office for inability to perform his duties or for misbehaviour.

The present members are Messrs, D. A. Scott Cairns, Q.C. (clairman), W. Deacon, W. S. Howells, A. A. Meldrum, H. C. Shaw and W. E. Stokes. Secretary: Mr. P. H. Woodnoth, Ph.C.

CORTISONE FROM COMMONWEALTH SISAL?

By P. C. Spensley, M.A., B.Sc., D.Phil., A.R.I.C. (National Institute for Medical Research, Mill Hill, London, N.W.7)

LVER since the discovery in 1949 by Hench and Kendall at the Mayo Clinic, Minnesota, U.S.A., of the beneficial effect of cortisone in rheumatoid arthritis, there has been a world demand for the drug far in excess of the amount available. Although it is now recognised that the application of the drug in this disease may often prove unsatisfactory, other uses have been developed for it, and the shortage remains.

The reason why pharmaceutical manufacturers have not so far closed the gap between supply and demand is principally the fact that it is not yet possible to synthesise the complicated structure of cortisone economically from simple, readily

available materials.

This synthesis may one day be achieved, but in the meantime it is necessary to use as the starting substance for the large scale manufacture a naturally occurring compound with a chemical structure closely related to that of cortisone and convertible into it with reasonable readiness and in economic yield. Hitherto, virtually all the cortisone that has been produced has been derived from cholic and deoxycholic acids

extracted from ox bile. These substances have the necessary structural requirements, but the amount of them available is limited and this has directed attention in several countries during the past few years towards the search for alternative starting substances available in larger quantity and preferably at lower cost. An answer to this problem may now have been found as a result of work by the Medical Research Council.

In 1943, R. E. Marker announced the discovery and structure of a new plant constituent which he named hecogenin. This was one of the features of a remarkable investigation carried out at Pennsylvania State College in which over 400 plant species were examined and twelve

hitherto unknown steroidal sapogenins (including hecogenin) were isolated and characterised.

Hecogenin (see also C. & D., June 7, p. 783)

When, six years later, cortisone sprang into prominence, the chemical structure of hecogenin placed it amongst the few promising starting materials for the synthesis of the drug, but apparently none of the plant sources of hecogenin which Marker described has been found commercially practicable. Marker's list of plants examined contained some forty-three species of Agave, in fourteen of which hecogenin was found. R. K. Callow pointed out, however, that Agave sisalana Perrine, the sisal plant which is grown in vast quantities, particularly in East Africa, for its valuable hard fibre, had not been included, and preliminary examination at the National Institute for Medical Research showed that sisa leaves did, in fact, contain hecogenin. The illustration (p. 85) shows a sisal leaf with sisal plants to the side and in the back ground. The dried solid residue of the leaf left after the industrial fibre extrac tion process, which is normally a waste material, also yielded hecogenin, but the amount varied considerably in the few samples that were tested in Britain. The reason for this could not be ascertained a little was known of the origin of the samples. So the Medical Research Council sent a member of its staff out to Eas Africa so that research and developmen on this project could be continued with full scientific control over the material to be examined.

Juice the Most Satisfactory Source

As a first result it was found that the juice of sisal leaves was the most satisfactory source of hecogenin, even though the content does not exceed one part in 1,000 and a simple method of extraction, suitable for operation on a large scale, was developed. Dried whole leaves and dried



AN EXISTING SISAL
FIBRE INDUSTRY
IN EAST AFRICA
SHOWS PROMISE
OF PROVIDING THE
HECOGENIN FOR
CORTISONE SYNTHESIS
FROM THE JUICE,
FORMERLY WASTED

At left:

Sisal plants in growth, and, in foreground, a sisal leaf displayed.

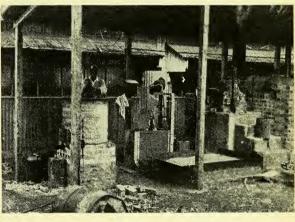
AT THE LABORATORIES
OF THE EAST AFRICAN
INDUSTRIAL RESEARCH
BOARD, NAIROBI,
KENYA, A PILOT PLANT
FOR HECOGENIN EXTRACTION IS ALREADY
IN OPERATION

At right:

Into a 60-gall, charge of sisal juice treated with sulphuric acid (left tentre) is being stirred activated charcoal.

vaste had required as a first operation an extraction with hot alcohol that would probably never have been an economic proposition on a large scale. But with the uice this was not necessary, and at once he project assumed much greater significance as a possible industrial process. The uice itself can be obtained by crushing whole sisal leaves in a press or between eavy rollers but is, in practice, most conneniently produced by squeezing out the ery moist waste material as it comes off he fibre extraction machines. In this way he production of juice can be fitted in to he existing industrial process without ffecting the output of the primary product.

Next it was necessary to determine hether or not there was any considerable ariation in the hecogenin content of



juices from sisal plants of different ages or grown under different climatic or soil conditions, or even at different times of the year. It may be remembered that in the search for sarmentogenin-another plant product which has been investigated as a possible starting material for making cortisone-the Medical Research Council's expedition to Nigeria in 1949 discovered that the substance was contained in the seeds of Strophanthus sarmentosus plants growing in the inland savannah country but not in those found in the forests nearer the coast (Meikle, C. & D., 1951. II. 285-86). So samples of leaf juice were collected from widely separated estates in Kenya and Tanganyika and their hecogenin content determined. Considerable variation was observed, but this was found to be due principally to

differences in the ages of the plants from which the leaves were collected, there being a steady increase in the hecogenin content of the juice the older the plant became. There was a smaller amount of variation between the samples from one estate and another, but this was comparatively unimportant and could not be related to any particular factor in the growing conditions. For large-scale production of hecogenin it would appear essential to collect juice only from leaves of plants that are more than half way through their useful life. This would not be difficult to achieve, as in well organised sisal estates the area under cultivation is divided into blocks according to the date of planting. It would always, therefore, be possible, knowing which block was providing leaf for the factory, to say whether or not the juice would be suitable for hecogenin extraction.

A pilot production plant is now in operation at the laboratories of the East African Industrial Research Board, Nairobi, and this is carrying out the first stages for the extraction of hecogenin from sisal juice provided by a nearby estate. The partly-processed material is then being flown to

England for further extraction and purification at the National Institute for Medical Research where the product is being used at present for research into new methods of converting hecogenin to cortisone. The illustration of the pilot plan (p. 85) shows an African stirring activated charcoal into a 60-gall, charge o sisal juice that has just been submitted to a period of boiling with sulphuric acid.

A British Industry?

The facts that sisal juice is a wast product of a large, established industrand that hecogenin can be simply extracted from it lead to the hope that hecogenin will one day become the cheapest starting material for the manufacture of cortisone. There need be no shortage of supply since calculation shows that, at the presen level of sisal fibre production in East Africalone, over 1,000 tons of hecogenin is being washed into the fields and river annually. With a view to developing the whole project as a British industry, the National Research Development Corporation has become actively concerned in the scheme and is sponsoring further work.

NO EXCEPTIONS—NOT EVEN FOR THE MINISTRY

By Hillcove

W EEKS have gone by since the levy was introduced, and the effects are patchy. Some chemists have experienced no change. Others report drops by various percentages. As was foreseen, the levy has created strain with customers (extra work, time spent in explanation, issue of forms, correcting even Post Office m'sunderstandings, arguments as to optimum number of scripts on a form, etc.), and has put chemists in the position of receiving abuse.

The National Pharmaceutical Union's and other directions emphasise the points: "Collect the shilling per form on presentation," "No exceptions," "All must pay in cash." "Any who are entitled to a refund by virtue of National Assistance Board or War Disability Pensions must claim it later, submitting a Form of Receipt EC57." In plain words these all add up to "no credit." As a business man, I regard "no credit." as meaning the collection of cash for work undertaken or supplies made. If one renders a statement, account, invoice, schedule, etc., for subsequent payment, be it only the next day, that is credit!

There has come to my knowledge, from an article in a publication with a national

circulation in administrative circles, tha a proposal is afoot to deal with an ECI form—and/or batches of them presented for dispensing—on the basis of an arrange ment between the chemist and the authorit by which payment of the charges woul-be made at the time of taking in th scripts "or at periodic intervals," with th receipted EC57 obtained from the chemis each time EC10 forms are handed in fc dispensing. As I see it, such a "periodi interval "involves booking the one shilling charge, for which a receipted form ha been issued. The contractor will hav signed that he has received the sum of on shilling towards the cost of the medicine etc. Not only has he, in doing so, mad a false declaration, but he has offered a inducement to some body or authority namely, by being prepared to book charge when a colleague down the road, carrying out the regulations and Government policy, may have refused to allow credit.

The suggestion calls for an immedial renunciation from the Ministry, for the cicumstances I have quoted show the Department openly flouting the Regulation they have made and for which they as

responsible.

SPIRIT STRENGTHS OF B.P.C. PREPARATIONS

DELOW are given the percentage v/v content of ethyl alcohol, with equivalent strength in percentage of proof spirit, of many preparations of the British Pharmaceutical Codex, 1949 (as amended by the 1952 Supplement where appropriate). The list supplements information previously given (C. & D., February 23, 263) on preparations in the B.P.

07 1 1		
	Percentage	Equivalent
Preparation of B.P.C., 1949	v/v of ethyl	
as amended by Supplement	alcohol by	percentage of
1952 where appropriate)		percentage of
1932 where appropriate,	calculation	proof spirit
Aurist. acid. boric	19.7 to 19.8	34.3 to 34.6
,, resorcin	70.0 to 71.4	122.6 to 125.1
" spirit	47.3 to 47.6	82.8 to 83.3
Bromof	about	about
Diomoi		
C-11- A -!		
Collod. simp	22.4 to 22.6	39.1 to 39.5
Cremor, aminacrin.	4.7 to 4.8	8.2 to 8.3
Elix. caffein iod.	1.3 to 1.7	2.3 to 2.9
" " ,, et ephed.	1.3 to 1.7	2.3 to 2.9
" simp	5.4 to 6.0	9.5 to 10.4
41	9.0 to 9.8	15.4 to 14.1
realism of shlowel	9010 90	15 / 10 1/1
" valerian. et chloral.	C . C	
.со.	5.6 to 6.0	9.9 to 10.6
Emuls. ol. morrh.—		
c. glycerophosph	. 0.0	1.5 to 1.7
1 1 1	0.0	1.5 to 1.7
-44		15 to 1.7
et creosot	2.0 to 2.1	
Glycerin. pepsin	0.5 to 0.3	0.4 to 0.2
,, thymol. co	2.2 to 2.3	3.9 to 4.0
Gutt. cocain. et hydrarg.		
perchlor, oleos	0.9 to 1.0	1.7 to 1.8
perchlor. oleos Haust. aether. co	7.7 to 8.4	
ahlaralformar		13.5 to 14.8
" chloralforman	1.0 to 1.3	I·7 to 2·2
,, chloral	0.6 to 0.8	1.1 to 1.2
,, ,, et pot. brom.	0.6 to 0.8	1.1 to 1.2
" paraldehyd	1.0 to 1.3	
inct. diamorph. et hyosey.	4.9 to 5.3	8.7 to 9.4
	4.6 to 5.0	
	4.6 to 5.0	8.1 to 8.8
in. aconit., bellad. et	0 0	0
chlorof	41.8 to 48.7	78.4 to 85.2
iq. pancreatin	1.3 to 1.4	2.3 to 2.4
" sod. phenat. co	1.4 to 1.6	2.5 to 2.7
ot. pic. carbon. alk	1.5 to 1.8	2.7 to 3.1
at a bossels		4:0 to 3:5
,, ,, et plumb.	2.3 to 2.7	4.0 to 4.6
" plumb. c. opio	2.0 to 2.3	3.2 to 4.0
" " evap " sulphur. co	11.5 to 11.3	19.5 to 19.7
,, sulphur. co	5.8 to 5.9	10.1 to 10.3
list. ammon. ipecac. co.	1.5 to 1.8	2.6 to 3.2
	1.1 to 1.4	1.9 to 2.4
,, ,, ,, et morph.	0.9 to 1.5	1.6 to . 2.0
" bellad. et ephed. pro		
infant	4.6 to 5.1	8.0 to 8.9
,, ,, et ipecac. pro		
infant	3.6 to 4.1	6·4 to 7·1
		4:0 to 7:1
,, ,, pro infant		4.9 to 5.3
" bism. et morph	0.5 to 0.3	0.4 to 0.2
" calc. carb. co. pro		
infant	1.4 to 1.5	2.4 to 2.6
,, ,, chlorid	0.5 to 0.6	0.8 to 1.0
" casc	0.1 to 0.5	0.5 to 0.3
. 1 11 1		
", chloral. et pot. brom.	2.7 to 3.0	4.8 to 5.3
" chloral, et pot, brom.		
pro infant	2.8 to 3.1	4.9 to 5.3
" colch	3.6 to 3.8	6.3 to 6.6
" " et sod. salicyl.	3.9 to 4.2	
		6.9 to 7.3
" creosot. et pot. iod.	1.7 to 2.2	3.1 to 3.9
" cret. aromat. c. opio	5.2 to 6.1	9.6 to 10.7
,, c. catech. pro		
infant	3.7 to 4.0	6.4 to 7.0

Dirice. I KEI A	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0113
Preparation of B.P.C., 1949	Percentage	Equivalent
as amended by Supplement	v/v of ethyl	strength in
1952 where appropriate)	alcohol by calculation	percentage o proof spirit
Mist. gelsem. et hyoscy. co.	6.6 to 7.1	11.6 to 12:
" gent. acid	2.5 to 3.0	
,, ,, c. nuc. vom.	4.5 to 4.8	7.5 to 8.6
" " " pro infant.	4.2 to 4.9 1.3 to 1.6	2.3 to 2.8
,, ,, alk	2.2 to 3.0	4'3 to 5'
c. nuc. vom.	4.2 to 4.9	7.5 to 8.6
,, ,, pro infant.	1.3 to 1.6	2.3 to 2.8
,, ,, c. rheo	4.2 to 4.8 2.8 to 3.2	7.4 to 8.2
,, ,, c. rheo	2.8 to 3.2 1.6 to 2.0	4.9 to 5.6 2.9 to 3.5
,, ipecac. aik	2·1 to 2·7	2·9 to 3·3 3·7 to 4·3 0·8 to 1·
,, ,, pro infant ,, kaolin. et morph	2·1 to 2·7 0·5 to 0·6	0.8 to 1.
" lobel. et stramon. co.	5.6 to 6.4	9.8 to 11.2
,, kaolin. et morph ,, lobel. et stramon. co. , mag. carb. aromat. , morph. et ipecac , nuc. vom. acid	5.6 to 6.4 1.7 to 1.8	3.0 to 3.5
" morph. et ipecac	1.9 to 2.4	3.3 to 4.5
" nuc. vom. acid	1.7 to 1.9	3.1 to 3.7
,, ,, ,, alk	1.7 to 1.9	3.1 to 3.7
" phenazon, et pot. brom	0.6 to 0.8	1.1 to 1.2
	0.6 to 0.8	1.1 to 1.3
,, potr bronn 11	0.6 to 0.8	1.1 to 1.
,, ,, ,, et alsell.	0000	
pro infant.	4.6 to 5.1	8.0 to 8.9
,, ,, ,, nuc. vom.	1.7 to 1.9	3.1 to 3.7
,, ,, ,, et valer.	2.5 to 2.9	4.3 to 5.0
,, ,, ,, pro infant.	1.0 to 2.2	3.3 to 3.9
,, ,, cit	1.0 to 1.1	1.2 to 1.6
,, ,, et benad, pro infant.	2.6 to 2.9	4.6 to 5.0
,, ,, ,, hyoscy.	9.5 to 10.0	16.2 to 17.5
,, ,, iod. ammon.	1.0 to 1.3	1.7 to 2.2
rhei co.	4.6 to 5.1	8·1 to 9·0 8·1 to 9·0
,, ,, ,, pro infant	4.6 to 5.2	8.1 to 9.0
,, sod. bicarb, aromat.		7
pro infant	1.8 to 1.9	3.1 to 3.4
,, ,, cit ,, ,, salicyl	1.0 to 1.1	1.7 to 1.0 2.2 to 2.7
,, ,, salicyl ,, stramon. et ephed. pro infant.	1310 10	2210 2
pro infant.	1.6 to 1.9	2.9 to 3.3
,, ,, ,, pot. iod.	3.3 to 3.8	2.9 to 3.3 5.8 to 6.6
" " " "		
pro infant.	3.6 to 4.1	6.3 to 7.2
Past. acid. tann	5.6 to 5.7	9.9 to 10.0
Pig. iod. co , magent	3.3 to 3.4	5.8 to 5.0
or, magent.	7.4 to 7.5 0.2 to 0.3	0.4 to 0.5
Sp. chir. No. 1	85·4 to 85·9	
,, ,, No. 2	85.4 to 85.9	
,, ,, No. 3	87.2 to 87.7	
,, ,, No. 4	87.2 to 87.7	
Syr. alii	3.0 to 3.6	5.2 to 6.3
,, aromat ,, ,, flor	3.1 to 3.8 0.7 to 0.8	5.4 to .6.6
1	4.6 to 4.7	8.0 to 8.2
,, bromot. co ,, cocillan. co	6·1 to 6·7	10.8 to 11.8
" codein. et creosot	0.4 —	0.6
,, ,, phosph	2.1 to 5.5	3.6 to 3.8
,, creosot. co	not more	not more
	than	than
almananh h	7.2	12.5
,, glycerophosph. co	0.3 to 0.4	0.6 to 0.7 0.6 to 0.7
,, ,, et pepsin. co. ,, flav	0.3 to 0.4	0.6 to 0.7
,, opii camph	0.6 to 0.8	1.1 to 1.4
,, papav	2.5 to 3.0	4.3 to 5.5
,, pic. liq	not more	not more
	than	than
	4.8	8.3

4.8

not more

than

2.8 to 3.2

8.3

19.7

not more than

5.0 to

Items marked * are usually made with Industrial Methylated Spirit.

,, pini

,, rhei ..

C. & D. REFRESHER COURSE for Pharmacists

Compiled by
COLIN GUNN, B. Pharm., Ph.C.
Assisted by
S. J. CARTER, B. Pharm., Ph.C.
D. R. BRAGG, B.Sc. Hons. (Lond.), B. Pharm., Ph.C.,
and E. J. HTCHETT, Ph.C.

18.—BLOOD PRODUCTS AND PLASMA SUBSTITUTES

"What profit is there in my blood?" BOOK OF COMMON PRAYER, PSALMS XXX, C

THE volume of the blood in the body can be reduced to a dangerously low level by hæmorrhage, shock, burns and uncontrollable vomiting and diarrhæa. Hæmorrhage and certain diseases may result in deficiency or absence of vital blood constituents such as red cells, platelets and clotting factors; the transfusion of human blood or plasma is often of great value in the treatment of these conditions.

Collection for Storage

As it is inconvenient to have to call up donors every time a transfusion is required methods of storing blood have been developed and have led to the production of the various blood and plasma products to which official recognition is given in the Addendum, 1951, to the British Pharmacopæia, 1948.

Whole human blood is blood collected from adults into a suitable anticoagulant solution (article 17, C. & D., July 5, p. 25). Care is taken to ensure that the donor is free from diseases which could be transmitted via the blood to the recipient. It is stored at 4 to 6°C. and may be used at any time up to twentyone days after the donation provided that the anticoagulant is sodium acid citrate; with sodium citrate its life is only seven days. After these times it is unfit for transfusion because the red cells become more fragile and may break down (hæmolyse). Blood is an excellent medium for bacterial growth and great care must be taken to prevent contamination. Infection is usually indicated by rapid hæmolysis which obscures the clear line of demarcation between cells and supernatant fluid that is present in sterile blood. The most important use of whole blood is in the treatment of shock caused by hæmorrhage especially during or following surgical operations.

Deficiency of red blood cells and hæmoglobin in patients with anæmia has

been mentioned in article 16 (C. & D. June 14, p. 814), "Anæmia and Liver." Ir such cases the transfusion of blood is fre quently useful but whole blood causes au undesirable increase in blood volume. Thuse of concentrated suspensions of recolood cells, which are prepared by removing part of the plasma and anticoagulan solution from whole blood, avoids this disturbance of volume. The removal of the plasma is difficult to achieve without causing infection and therefore the suspension should be stored at 4°C. and used no later than twenty-four hours after preparation.

Whole blood can only be stored fo a short period because of the danger chemolysis and because inorganic constituents gradually pass out of the cells in the plasma and are liable to cause toxi reactions. Except where fluid loss is dut to hemorrhage transfusion of plasma in stead of whole blood is usually satisfactory and since plasma can be stored for lon periods without refrigeration it is not used in emergencies when whole blood not available or while the patient's bloo is being grouped.

It is prepared either by centrifugin time-expired citrated whole blood or allow ing the red cells to settle and then asept cally removing the supernatant fluid b siphoning. The plasma from donors different blood groups is then mixed i definite proportions so that the isoant bodies (the substances in the plasma whice cause damage to the red cells of person of the wrong group) are neutralised. A alternative way of obtaining the liqui portion of blood is to receive whole bloc from the donor into a versel containir no anticoagulant, allowing it to clot ar This liquid is called serum and essential it only differs from plasma in that th latter still has a fibrinogen content (se article 17).

ied Human Plasma and Serum

Liquid plasma and serum have several advantages. First, during storage turlity and deposits may form which make detection of bacterial infection imposle; secondly, if large numbers of plasma nations are mixed there is a danger of insmitting a form of jaundice to the cipients. Methods of preparation have an devised to prevent the occurrence of oudiness. These involve removal of proombin, fibrinogen and fatty substances adsorption on kaolin or by solvent raction but the many manipulations inved make the maintenance of sterility ficult and plasma thus prepared should kept for three weeks, preferably at a perature conducive to bacterial growth, d not used if a turbidity or deposit

Following the discovery that the pooling large numbers of plasma samples played important part in the transmission of um jaundice small pools were prepared l its incidence became much less. lition attempts have been made to kill virus which causes the disease by irliation with ultra-violet light or treatnt with nitrogen mustard but neither thod is certain and the possibility of effects from the use of these agents not yet been fully explored. iculty of preservation in the tropics been solved by drying the plasma or um from the frozen state first by uum and then over phosphorus pentde. Small pools are used and tests for fility are carried out at each stage. In dried form storage is possible for five rs and reconstitution merely involves addition of sufficient pyrogen-free disd water or other suitable solvent until volume is equal to that of the original aid plasma or serum. The reconstituted terial should be used within three hours. by using suitable precipitants at carey controlled ph it is possible to separfrom plasma fractions containing the inogen and the prothrombin (article

The latter can be converted to mbin by the addition of thrombokinase calcium ions. Fibrinogen and thromare unstable in solution and must be served in the freeze-dried condition unimmediately before use. When their tions are mixed a clot of fibrin results ch can be prepared in situ to fix grafts nerve sutures in surgical procedures. brinogen solution is whipped to a froth a revolving disc and then thrombin

is added a foam-like clot is produced which is poured into trays, allowed to set, freeze dried, and finally sterilised at 130° C. for three hours, This foam is used alone or soaked in thrombin to stop bleeding in brain and lung surgery. The great advantage of fibrin products for the purposes mentioned is that as they are human products they can be left in the body without causing undesirable tissue reac-The fibrinogen fraction also contions. tains sufficient of the anti-hæmophilic factor of plasma to make it valuable for preventing and arresting the bleeding of hæmophiliacs.

Plasma Substitutes

Many substances have been tested with a view to their use as substitutes for blood plasma but only a few promise to be satisfactory. The most frequent faults with these substitutes is that they are either lost rapidly from the blood or that they prove toxic to the liver or kidney. However, three products are being used with some measure of success:—Gelatin, dextran and polyvinyl pyrrolidone.

A special gelatin developed in America was the first successful plasma substitute. Gelatin of commerce is not suitable because it usually contains pyrogenic substances and the gelatin molecules are not of the correct size. The molecular size must be carefully controlled because molecules which are too small are excreted too rapidly and molecules which are too large exert an osmotic pressure which is too small to prevent excessive loss of fluid through the kidney. The special intravenous gelatin for use as a plasma substitute is made from refined beef bone collagen and great care is taken to prevent bacterial contamination during its manufacture. The chief disadvantage with gelatin is that the 6 per cent. solution which is used is a gel at room temperatures and must be warmed before use. On the other hand if it is stored at blood temperature to maintain it in liquid form it must be used within a month since at that temperature gelatin is hydrolised slowly with reduction in its osmotic pressure.

Dextran is a polysaccharide produced by fermenting sucrose with Leuconostoc mesenteroides; it has been known in the wine and sugar industries for a long time as a slime which clogs filters and interferes with crystallisation. This product of fermentation is subjected to controlled hydrolysis in order to reduce the molecular size and the products of hydrolysis are then separated by fractional precipitation with alcohol. The fraction with the molecular weight nearest to that of serum albumin is found to be the most satisfactory. It is administered as a 6 per cent, solution in normal saline.

Polyvinyl pyrrolidone was originally developed in Germany during the 1939-45 war for use in the treatment of shock. Its chemical structure is as here shown:—

$$\begin{array}{c|c}
CH = CH_2 \\
 & \\
 & \\
CH_2 & CO \\
 & \\
 & \\
CH_2 - CH_2
\end{array}$$

It is a polymerised form of vinyl pyrrolidone and is prepared by a complex synthesis from acetylene and ammonia. has a molecular weight of 40,000 50,000 depending on the degree of pol merisation, *i.e.*, upon the value of "n It is administered by intravenous injectic as a 3.5 per cent, solution together wi a suitable combination of mineral sal and like dextran does not have to warmed before administration.

References

Nance, "J. Pharm. Pharmacol.", 1950.2.273. Mollison, "Blood Transfusion in Clinical Mecine," Blackwell.

REVISION QUESTIONS

- 1. For what condition are plasma a serum least satisfactory as a substitute j whole blood?
- 2. Why should not large amounts plasma be pooled?

CHEMICAL SESSION IN BASLE

AT a joint meeting of the fine chemicals group of the Society of Chemical Industry and the Basle Chemical Society, held at Basle, Switzerland, recently, F. Bergel (chairman of the group) presiding, Dr. J. Renz (Sandoz Products, Ltd., Basle) read a paper on "The Enzymatic Cleavage of the Cardiac Glycosides," Cardiac glycosides, he said, were of three types, depending upon the number of the attached sugar residues. In type I, glu-close is linked through a desoxysugar to the aglycone; in type II, a desoxysugar only is linked to the aglycone; and in type III, glucose is linked directly to the aglycone. Linkage to the aglycone is at carbon atom 3 of the bile-acid structure. The desoxysugars, generally peculiar to the cardiac glycosides, are of the 2- or 2:6-desoxy type. Acid hydrolysis breaks all the glycosidic linkages and often destroys the aglycone. Hence recourse to enzymatic cleavage is necessary for stepwise hydrolysis (e.g., of type I to type II). This is exemplified by the type I glycoside strophanthin which is hydrolysed by the enzyme strophanthobiase, from Strophanthus courmanti seeds, to glucose and the type II glycoside cymarin. Acid hydrolysis of cymarin yields the aglycone strophanthidin, and the rare desoxysugar cymarose. Similarly the aglycone of scillaren-A, the potent cardiac glycoside of white squill, is destroyed on acid hydrolysis of the glycoside, whereas hydrolysis can be accomplished successfully enzymatically to give

the final products glucose, rhamnose a the aglycone.

DR. H. J. BEIN (Ciba, Ltd., Basle) ga a paper on "Biological Research in the Pharmaceutical Industry," dealing we the general aspects of pharmacologitesting associated with research and standardisation in the industry and illustration in the industry and illustrat

In a final paper, Dr. H. Spiegelbe (Hoffmann La Roche, Basle) describ a new synthesis of folic acid in wh 2:4:5-triamino-6-hydroxypyrimidine vendensed with ribose instead of the musual three-carbon keto-alcoholic compent, condensation occurring initially on more reactive 5-amino group. The rest ant substituted pteridine was then sejected to glycol cleavage in aqueous nit acid with red lead to give 2-amino formyl-4-hydroxypteridine. It was the reductively condensed with p-aminob zoyl-glutamic acid by catalytic hydrogetion in formic acid solution, the result N-formyl derivative being finally hydlysed to folic acid.

Handwriting Expert.—"If any one as a letter from me which they cannot reached they can always take it to the mearest comist. . . If he can translate the wibb wobbly lines which doctors put on the prescriptions, he should have no difficult with my efforts."—A correspondent in "National Cripples" Journal."

TRADE REPORT

ot quotations for pharmaceutical chemicals represent the prices for wholesale quantis of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

LONDON, JULY 19 anufacturers of soft Paraffins have nounced a slight reduction in the price the WHITE and YELLOW varieties. There

s also been a small cut in the price Lactic acid, B.P. Inquiries for Botanical Drugs were ore frequent during the week, though tual orders were less in evidence. A r amount of business was done during early part of the week in wet-crop nnevelly SENNA. Subsequently forward otations were sharply upgraded followreports that the crop will not be so od as was forecast. The position of newop Ergot is similarly confused, bids havbeen made at 9s, per lb., but not epted. The price now indicated from gin is 12s, 6d. per lb., c.i.f., though it difficult to get firm offers. Quoted aker for forward delivery were prime pe Alobs and natural French Gentian. e "official" floor price for Jamaican Gina appears to have been abandoned, ce offers have now been received well der the former level. Chillies and CE were also weaker at origin. Some ders of Orris root asked 15s. per cwt. er previous quotations following reports a poor crop this year. The recent adway made by Shellac was lost dur-the week as Calcutta lowered its ces. It is reported that the Indian vernment is watching shellac prices ich have dropped fifty per cent. since nuary, and is considering measures for purpose of controlling forward trading. y little interest was shown in Aroma-SEEDS; Morocco Coriander was offered low as 38s. per cwt., but buyers still d off.

in the Essential Oils market Chinese PPERMINT was noticeably firmer. Othere many were priced lower including MONGRASS, EUCALYPTUS (80-85 per cent. alyptol), spike LAVENDER, CINNAMON F and CITRONELLA from all sources.

The Ministry of Food has increased the ce of Palm oil by £5 per ton, c.i.f., large trade users for the month ending gust 9.

S. Drug and Chemical Report

NEW YORK, JULY 15

sults are now beginning to assume pe in a programme of the United States vernment to expand capacity in the mical industry. Realisation of the goals the Defence Production Administration ıld mean that productive capacity of rly a dozen major chemical items must doubled, or practically doubled, by

January 1, 1955. Included among these are Phenol, Hydrogen peroxide, Quino-line, Ethyl chloride, Methylene chlor-IDE and LITHIUM COMPOUNDS, Over-all demand for chemicals continues slow, with the prolongation of the steel strike and the vacation season combining to make the vacation season combining to make movement of materials very quiet, Lower per lb. are IPECACUANHA at \$5,75 (down 25 cents) and SENNA PODS at 25 cents (10 cents). SPEARMINT oil is now \$8.50 per lb. (up 25 cents) and Anise \$2.00 (up 15 cents).

Exchange Rates on London

Rates at the opening on Wednesday morning were:-

Centre	Quoted	Rate
*Alexandria	Piastres to £	97 1 97 4
Amsterdam *Bombay	Florins to £ Shillings to	10.56—10.72
·	rupee	1/518-1/618
Brussels	Francs to £	139—141
Copenhagen	Kroner to £	19.20—19.48
Dutch West Indies	Florins to £	5.24-5.32
*Hong Kong	Shillings to \$	1/232-1/3
*Israel	£I to £	994-1004
*Karachi	Shillings to	4 07 4 18
*	rupee	2/137-2/118
Lisbon	Escudos to £	79.90—81.10
*Montreal T.T	Dollars to £	2.70 3 2.70 3
New York T.T	Dollars to £	2.78—2.82
Oslo	Kronor to £	19.85—20.15
Paris	Francs to £	972—988
*Singapore	Shillings to \$	$2/3\frac{15}{16}-2/4\frac{1}{16}$
Stockholm	Kronor to £	14.37—14.60
*Teheran	Rials to £	89.40—91.00
Zurich	Francs to £	12.14-12.35

*Free market rates; remainder Bank of England.

Pharmaceutical Chemicals

Barbitone.—Rates per lb. are: 1-cwt. lots, 34s.; 28-lb., 35s. The Sodium derivative is 1s. per lb. more than the base.

Benzyl benzoate. — Makers' offers of B.P. grade range from 4s. per lb. for 1-ton lots to 6s. 9d. for smallest quantities.

Butobarbitone.—B.P.C. is 75s. per lb. in 1-cwt, lots.

Cyclobarbitone. — B.P.C. and Calcium DERIVATIVES in 1-cwt. lots are 75s, per lb.: small lots from 77s, 3d, to 79s, 6d, per lb.

DDT.—Prices are from 4s. to 4s. 3d. per lb., as to quantity.

EMETINE SALTS.—Rates per oz. are as follows:—Hydrochloride, 32-oz. lots, 270s.; 16-oz., 273s.; 4-oz., 276s.; 1-oz., 280s. Bismuth iodide, 32-oz., 135s.; 16-oz., 136s. 6d.; 4-oz., 138s.; 1-oz., 140s.

EPHEDRINE.—In 100-oz, lots Alkaloid is 12s. per oz.; Hydrochloride, 5s. 1d.; SULPHATE, 8s. 6d.

Gualacols,—Liquid and crystal are from 16s, 6d, to 17s, 6d.; and carbonate from 17s, 6d, to 18s, 6d, per lb.

Homatropine hydrobromide.—In 1-lb. lots price is 75s, per oz.; 4-oz., 80s., and 1-oz., 85s.

Hydrocyanic acid. — Dilute, B.P.C., is from 1s, 4d, to 1s, 11d, per lb., as to quantity; Scheeles is from 1s, 8d, to 2s, 3d.

TODIDES.—Rates (per lb.) for POTASSIUM are as follows:—1-cwt., 18s. 1d.; 28-lb., 18s. 7d.; 7-lb., 22s. 2d. SODIUM TODIDE is: 1-cwt., 19s. 7d.; 28-lb., 20s. 1d.; 7-lb., 23s. 10d.

IODINE PREPARATIONS.—Rates (per lb.) are as follows:—RESUBLIMED IODINE, 1-cwt., 21s. 3d.; 28-lb., 21s. 9d.; 7-lb., 25s. 9d. IODOFORM POWDER, 1-cwt., 25s. 4d.; 28-lb., 25s, 10d.; 7-lb., 30s. 6d. (CRYSTAL, 2s. 8d. per lb. more.)

ISOPRENALINE SULPHATE. — B.P.C. is 2s. 4d. per gm. for 100-gm. lots.

ISOPROPYL ALCOHOL.—Prices range from 18s, 3d to 19s, 9d, per gall., as to quantity.

Lactates.—Calcium, B.P., is 3s. 0½d. per lb. in 1-cwt. lots; 28-lb., 3s. 4½d.; 7-lb., 3s. 8½d. per lb. Calcium sonium, B.P.C., for the same quantities is 4s. 8½d., 5s. 0½d. and 5s. 4½d. per lb. Lactic acid, B.P., in 12 winchester lots is 4s. 3d., and 3 winchesters, 4s. 7d. per lb. Carboys are 4s. per lb.

Kaolin.—In 1-cwt, bags, Light is quoted at 80s, per cwt., and Heavy at about 25s, per cwt.

Magnesium hydroxide, B.P.C.—Makers' price for 1-cwt. lots is 3s. 5d. per lb.

Magnesium oxide.—Rates for Light, B.P., are as follows:—1-ton lots, 4s. 5d.; 1-cwt., 4s. 8d.; 28-lb., in tins (free), 5s. 7d. per lb. In bulk packing, Heavy, B.P., is 5s. 4d. per lb.; in free tins, 6s. 6d. per lb.

Magnesium trisilicate.— In 28-lb, packages the prices (per lb.) are now as follows:—28-lb., 4s, 9½d.; 1-cwt., 3s, 10d.; 5-cwt., 3s, 8d. Lower quotations for larger quantities.

Mandelic acid. — 1-cwt, lots in 28-lb. containers are 10s, 9d, per lb. The Calcium salt is also 10s, 9d., while Sodium is 11s, 3d, per lb., for 1-cwt, lots,

МЕТНҮК SALICYLATE, — In 5-cwt. lots, price is 3s. 2½d. per lb.; 1 cwt., 3s. 3d.; 56-lb., 3s. 3½d.

Metol. — In 1-cwt, lots the price is 24s, 6d, per lb.; 28-lb., 25s, 6d.; 14-lb., 27s.; 7-lb., 28s.

NICOTINAMIDE.—Prices (per kilo) are as follows:—500 gm, and under 1 kilo, 160s.; 1-10 kilos, 157s. 6d.; 10-25 kilos, 155s.; 25-50 kilos, 152s. 6d.

OPIATES. — Home-trade rates (per oz.) for quantities of 5 oz. and upwards are as follows:—Codeine.—Alkaloid, hydro-

bromide, iodide, 67s.; hydrochloride a sulphate, 58s. 4d.; phosphate, 50s. 4 Diamorphine.—Alkaloid, 68s. 8d.; hydrochloride, 62s. 4d. ETHYLMORPHINE.—Alk loid, 72s. 4d.; hydrochloride, 61s. 4 Morphine.—Alkaloid, bimeconate and tatrate, 69s. 4d.; acetate, hydrochlorichydrobromide and sulphate, 57s. 4d.

PAPAVERINE,—Synthetic Hydrochlori is in the region of £46 per kilo.

Paraffin.—Liquid: Prices to wholest distributors for Heavy, B.P., is £104 7s. (per ton (8s. 3d. per gall.). Light, B. is £85 7s. 6d. per ton in 40/45 gall. turnable loaned drums, delivered in U.K. Soft paraffin: White is £91 12s. (or £89 8s. 6d. per ton as to grade a Yellow, £69 7s. 6d., all in non-returnal 3-ewt. drums. Hard paraffin, m.p. 13 140° F., is £80 12s.; 145/150° F., £9 and 160/165° F., £110 per ton, in mimum ton lots, ex works.

PHENACETIN. — In 5-cwt, lots make price is now 7s. 2d. per lb., 1-cwt., 7s.; Supplies are easier.

PHENAZONE.—For 1-10-cwt, lots quo tions are 17s, per lb.

Phenobarbitone.—1-cwt. lots are 3 per lb.; 28-lb., 35s. per lb. Sodium is per lb. more than above rates.

Phenol,—Basic price for B.P. in dru is 1s. 6d, per lb.

PHENOLPHTHALEIN.—Rate for 1-cwt. le is 11s, 10d. per lb.

PHOSPHORIC ACID.—B.P. is 1s, 5½d, 1 lb, in 1-2-carboy lots, Hypophosphoro B.P.C., in winchesters, is from 5s, 9d, 6s, 10½d, per lb., as to quantity.

Procaine hydrochloride. — Lower. cwt. lots are 32s. 6d. per lb.

RESORCINOL. — Price per lb. for 28-56-lb. lots is 15s. 6d.; 1-10-cwt., 15s.

ROCHELLE SALT.—Rates (per cwt.) powder or granulated material are as f lows:—In 5-cwt, lots or over, 200s, 1 cwt.; 1-cwt., 202s, 6d. Seidlitz powd ordinary strength is 158s, 3d, per c in 1-cwt. lots; smalls, from 1s. 11d. per Extra-strong is 170s, 9d, per cwt., and for small quantities. Double-strength 178s, per cwt.

SALOL, B.P.C. — Current quotations quantities of 1 cwt, are 9s, to 10s, 6d, 1 lb., according to pack; 28-lb., 10s, 6 14-lb., 13s. 0½d.; 7-lb., 16s. 1d.

STILBŒSTROL. — Quotations are fr 1s. 2d. per gm. to 1s. 7d., as to quantity.

SULPHACETAMIDE.—Quotations (per l are from 24s. 6d. for 1-cwt, lots to 2 per lb. The Sodulm derivative is fr 30s, to 32s, 6d.

TERPINEOL.—Prices of B.P. grade a from 4s. per lb. upwards as to quantity.

TERPIN HYDRATE. — Prices are from 7s. 6d. to 8s. per lb., as to quantity.

Crude Drugs

CONITE.—Spanish napellus is 3s. 9d. lb., duty paid, ex wharf.

GAR.-Firm. Kobé No. 1 on the spot bout 15s. per lb.

Loes.—Prime Cape is weaker at about s. 6d. per cwt., c.i.f.; spot is unchanged 185s. Curação is 360s. per cwt., spot.

SAFŒTIDA.—Persian block is £18 per ., duty paid.

ALSAMS. — Canada: Spot is 29s. per forward, 28s. per lb., c.i.f., prompt ment. Copaiba: Para, soluble is red on the spot at 17s. 6d. per lb. u is 14s. per lb., duty paid, and 12s. 9d. Tolu on the spot is 32s. 6d. per and for shipment, 31s., c.i.f., for the vine as inverted.

uine as imported.

APSICUMS.—Abyssinian are from 140s. 180s. per cwt. on the spot; 110s. to s., c.i.f. East African, on stalk, are per cwt., and off stalk from 180s. s. p 00s.

ASCARA SAGRADA.—American bark, 1951 l, is from 290s. per cwt., duty paid. w-crop, 225s., c.i.f.

ASSIA BARK.—Whole on the spot is s. per cwt., in bond; forward. 96s.,

HILLIES.—Quiet. Sierra Leone on the t are 185s, per cwt.; for shipment, s., c.i.f.; East African (Mombasa), s., ex warehouse; for shipment, 220s.,

rgot.—Portuguese is 27s. 6d. per lb.. t, and new-crop for July-August ship-t is 12s. 6d. per lb., c.i.f.

ALANGAL.—A parcel is offered at 89s. cwt., ex bond, London.

ENTIAN.—French natural on spot is s. per cwt., and 112s., c.i.f.

INGER.—African on the spot is 115s. ewt., and 102s. 6d., c.i.f., July-August ment of new-crop. Spot quotations for naican are from 175s, to 190s, per cwt., to quality, and from 160s., c.i.f., for ment.

UAIACUM RESIN.—Quotations are about per lb. for spot material.

UM ACACIA. — Kordofan cleaned sorts the spot are 105s. per cwt.; shipment, , c.i.f., buyer's licence.

PECACUANHA.—Forward offers of Nicaran, July-August shipment, are from 45s. 16s. per lb., c.i.f., and Colombian, 41s.,

Spot quotations are: Nicaraguan, , and Colombian, 44s.

IQUORICE. -- Anatolian natural whole on spot in London is quoted at 52s, 6d. ewt.; Syrian, natural, is 42s, 6d. ck juice quotations are from 180s, upds, according to holder, duty paid, kish stick is 240s, per cwt. duty paid; ian stick, 475s. per cwt., duty paid.

MACE. - West Indian pale blade is 9s. per lb., for shipment, 7s. 11d., c.i.f.

Menthol.—Chinese is 56s, per lb., duty paid, and Brazilian, 46s., duty paid.

Orris root. — Offers of good quality Florentine are now 155s, per cwt., ex warehouse.

Saffron. - Mancha superior is offered at about 175s, per lb. on the spot for small

Seeds. — Anise. — Turkish, 135s. per cwt., in bond. CARAWAY.—Dutch, 92s. 6d. per cwt., duty paid, spot London. CELERY. -Indian is unchanged at 1s, 8½d. per lb., —Indian is unchanged at 18, 8½0. per 10., spot. CORIANDER. — Market dull; spot Morocco offered at 55s. per cwt., duty paid, and 50s., in bond; Argentine splits. 52s. 6d., duty paid. No business reported at these figures. Shipment: Morocco has been offered at as low as 38s. per cwt., c.i.f., London. CUMIN.—Very little interest shown in this market. Spot: Cyprus, 185s. per cwt.; Indian, 180s., and Morocco, 200s., duty paid. and 190s.. in bond. Shipment duty paid, and 190s., and Morocco, 200s., and Morocco, 165s. DILL.—Indian on spot is 82s. 6d. per cwt. for good quality. Fennel.—Indian, 200s.; French, 185s., duty paid, and 175s., in bond, all spot London. FENUGREEK.—Morocco in poor demand at 39s., duty paid, spot London or Liverpool. MUSTARD.—English low quality in short supply. From 85s. to 110s. per cwt. quoted, according to quality.

SHELLAC. — Spot quotations are: F.O.T.N., pure, 195s.; F.O. Standard No. 1, 215s.; fine orange, 230s. to 290s. per cwt., ex-London warehouse.

Squill. — Italian white new-crop is offered from origin at 57s. 6d. per cwt., c.i.f. London. Spot is from 60s, per cwt.

STYRAX.—Spot is 7s. 3d. per lb., duty paid.

Tragacanth.—No. 1 ribbon on the spot is £150 per cwt.; No. 2, £130; No. 3, £95.

TURMERIC.—Madras finger on the spot is 60s, per cwt., nominal. Forward offers are 50s., c.i.f.

Valerian.—Steady. Indian is offered at 140a, per cwt., spot, and Belgian at 215s.

Vanillin.—Rates (per lb.) are as follows: -5-ewt. lots, 40s.; 1-cwt., 40s. 3d.; 56-lb., 40s. 6d.; smaller quantities, 40s. 9d.

Waxes.—Bees'.—Dar-es-Salaam on the spot is 430s. per cwt.; shipment, July-August, 380s., August-September, 375s., c.i.f., nominal. Benguela on the spot is 400s. per cwt., in bond; shipment, 390s., c.i.f. Candelilla.—Spot supplies are offered at 645s. per cwt.; no shipment offers. Carnauba.—Prime yellow, spot, 1,120s, per cwt. No offers for shipment. Fatty grey, spot, 885s, per cwt, and 880s., c.i.f., for shipment. Montan.—Reibeck crude on the spot is 140s, per cwt. Ouricuri.—Spot 0.5 per cent, impurities, 700s, per cwt.

Essential and Expressed Oils

ALMOND. — English - distilled is from 6s. 6d. per lb.

AMBER.—Rectified on the spot is quoted at from 1s, 6d, per lb.

ANISE. — Spot supplies are offered at 8s. 6d. per lb.

Bergamot. — Nominal spot value is from 100s, to 105s, per lb.

BIRCH TAR.—Rectified is from 10s. to 12s. 6d. per lb., on the spot.

Bois de Rose.—Brazilian on the spot is 33s. 6d. per lb.

CAMPHOR, WHITE. — Chinese is 4s. 6d. per lb., on the spot.

CINNAMON.—B.P. oil on the spot is quoted at from 65s, to 70s, per lb, English bark oil is offered at 22s, 6d, per oz., Ceylon leaf, 10s, per lb., spot, for 5-cwt. lots.

Citronella, — Spot prices for original drums are: Ceylon, 4s, 3d, per lb.; Formosa, 4s., in bond; Java, 4s. 9d., in bond. Forward: Ceylon, 3s. 9d.; Formosa, 3s. 8d., and Java, 4s. 2d., all c.i.f., July-August shipment.

Eucalyptus.—Drum lots of 70 to 75 per cent. eucalyptol on the spot are 7s. 3d. per lb., and 80 to 85 per cent., 7s. 6d.

Geranium. — Bourbon on the spot is 85s. per lb.

GINGER. — English-distilled oil is from 120s, to 150s, per lb., as to grade. Imported oils are available at from 85s, per lb., as to quantity,

LAVENDER.—French, 40-42 per cent, linalol on the spot is from 43s, 6d, per lb. Spanish spike is 11s, 3d, per lb.

Lemongrass.—Forward quotations are 8s. 3d. per lb., c.i.f. Spot supplies are offered at 9s. per lb.

Nutmeg.—English-distilled oil is about 38s, per lb. Imported oil (B.P.) is offered at 30s, per lb., duty paid for drum lots.

ORIGANUM.—In original containers the price is 14s. per lb.

Patchoull. — Spot supplies of Penang are offered at 58s. per lb., and forward, 52s. 6d., c.i.f.

Pennyroyal.—Offers for immediate shipment are 25s. per lb., landed, duty paid, for small lots.

Petitgrain.—Paraguay on the spot is from 21s, per lb.

Peppermint.—Firmer, Chinese arvensis oil on the spot is from 37s, per lb, for 5-case lots; Brazilian, 18s, per lb, in drums; Italian "Mitcham" type, 60s.

ROSEMARY. — Spanish oil on the spot is from 6s. per lb., duty paid, as to quantity.

SAGE.—Spanish is offered at 10s, 6d, per lb., spot.

Sassafras.—Brazilian natural is offe ing at from 6s. 6d. to 7s. 6d. per lb., dut paid, according to grade.

Spearmint.—Firm. U.S.P. is scarce of the spot at 73s. per lb., nominal.

Vetivert.—Bourbon in original drun is 155s, per lb., spot.

WORLD TRADE

French Import Quotas.—Miscellaneou essential oils are included in a list of morthan 300 products for which import quota have been opened for the third quarte of 1952.

Serum Factory for Jugo-Slavia. -A serum factory at Subotica, Jugo-Slavi is being completed at the expense of dincounterpart funds derived from the Unite States portion of tripartite aid.

Japan's Sulphur Exports. — Japan h notified the International Materials Co ference that it will be able to expo 46,000 tons of sulphur during the latt half of 1952 against 11,000 tons in the fir half.

New Zealand Cortisone Venture. Manufacture of cortisone from by-produc of whale carcases is to be started by a ne company at Picton, New Zealand, in Se tember. The industry is to be a new ve ture for Taloil Industries, Pty., of Ne South Wales. The new subsidiary whave a registered capital of £100,000 stelling and New Zealand interests will all have shares in it.

West German Chemical Industry.—
setback in the sales of West Germanchemical industries, especially for expois reported to have become increasing
apparent in the past few months. T
branches most seriously affected have be
coal-tar dyestuffs and pharmaceutica
shipments of which declined to a val
of 22.5 million marks in March from
average of 40 millions per month in 195

Pakistani Soap Makers Seek Protectio—Pakistani soap manufacturers, giving edence before a tariff commission recent have demanded a total ban on imports toilet soaps or alternatively a 100 per cerincrease on the present import duty; as a reduction or refund of import dutithey have to pay on imported raw mate als. Local manufacturers claim that the quality of their products compares favouably with imported soaps, but that is futed by importers.

HERB CROP REPORTS

E following reports on this year's herb ps have been received from growers:—
Perks & Llewellyn.—The LAVENDER is eady showing colour and the harvest uld be early. Some of the younger nts are disappointing, but the older nts are in good condition and should e an excellent crop.

loseph Flemons & Sons, Ltd.—With new season's wild medicinal herbs, etc., her collected or ready for collection are in a position to supply the usual ge range. The season seems to be fairly mal, but future weather conditions will ct both the quality and quantity of se herbs not already gathered.

Bruce Starke & Co., Ltd.—CHAMO-E.—We have a good crop and provided fine weather holds we should get a ly good yield. LAVENDER.—The crop iso looking fairly well, but could do 1 a little more rain. We expect an rage yield. ANGELICA.—Although only mall crop, this is progressing satisfacly, but could also do with rain. PERMINT.—This is looking fairly well. vided we get some rain before cutting, yield should be up to average.

Villiam Ransom & Son, Ltd.—Weather litions have been good this year and s generally are above average. Bella-NA.—We have just harvested an exent crop. This year's plantations have ninated well but now require rain. OM TOPS.—We are now collecting and ct to have enough to meet reasonable ands. Buckthorn Berries.—Demand is to be increasing but we hope to obenough berries in the autumn to cover year's requirements. Chamomile.re has been a light crop again. The ng plants did not get properly estabd before a spell of dry weather-reng in many gaps. Dandelion.—This will be collected as usual in the mn. Elder flowers.—We have just in collection but demand is falling. CLOVE.—'There are good stocks of B.P. and we expect to have enough to meet nal consumption. Hemlock.—A very crop. Henbane.—We are now haring the best crop of second biennial we had for many years. The first-year is looking well and cutting will begin bout a fortnight. LAVENDER.—A very crop. The continual dry weather has d many plants. If the plantation had older present weather conditions are for this crop. WILD LETTUCE.—We have a good crop this year. Peppermint.—We have a larger acreage under cultivation. Rain is required for this year's plantations. Poppy heads. — A good crop. Poppy petals. — Collection is now in progress — we expect to have enough for normal demands, although each year collection becomes more difficult due to modern methods of weed control. Rhubarb.—An average crop. Aconite, Gorse, Rosemary, Stramonium and Valerian—show normal growth.

Stafford Allen & Sons, Ltd.—Our farms at Long Melford, Suffolk, have experienced very dry weather in past weeks and this, together with the recent extremely hot spell, has adversely affected some crops. The earlier crops have not suffered so much and are up to normal expectations. Belladonna.—The first cut has been made and was of good quality and to our usual high standard. We expect to make the second cut in a few weeks; it should be of equal quality and yield. Снамо-MILE.—The crop is coming along well but rain in the near future would greatly assist its growth. CLARY SAGE.—One of the beautiful sights of the district is our field of clary sage which is now in full bloom. The crop for distilling will be of the usual quantity. DIGITALIS (purpurea).- Despite the dry weather this crop is looking well and we expect a good yield of herb. DILL. The crop would have been better if there had been more rain early in the season, but we hope to get a fair crop with an average yield of oil. ELDER FLOWERS.--Collections have been made but supplies are limited. Hyoscyamus.—The secondyear herb was slightly below average but with early rain a good crop of first-year herb should result. LAVENDER.-We expect a good yield of oil from this crop which is just beginning to bloom. Parsley. Being a biennial the crop was well established early in the season and has been little affected by the dry weather. expect a good harvest of seed for distillation. Peppermint.—Owing to the dry spell the amount under cultivation is not growing with its usual vigour. A fair amount of high quality oil should result. POPPY PETALS.—We have been able to make a fairly good collection. The difficulty of obtaining permission from farmers to collect petals from their fields, however, does not help collections. VIOLA PETALS.— An excellent bed of violas should result in an ample supply of petals.

TRADE MARKS

From the "Trade Marks Journal," July 2

For soaps, perfumes, cosmetics and non-medicated toilet preparations (3).

BERNADOTTIE, B694,298, by Bernadette, London, N.W.8.

For soaps (3).

TERIAL, 706,882, by Premier Soap Co., Ltd.,

For all goods (3).

PANOTAN, 707,327, by Max Factor & Co., Los Angeles. ALEXANDER LECKIE, 707,394, by Alexander Leckie, London, S.W.15.

For pharmaceutical preparations, infants', invalids' and dietetic foods (5).

BENGER, BENGER'S, 695,877-80, by Benger's, Ltd., Ipswich.

For all goods (5).

FRESHIOS, 697,677, by Swizzels, Ltd., Stockport. DUOMICINA, 705,784, by Lepetit Sociedad Anonima, Milan.

For pharmaceutical preparations (5). W 2 PAN-AMINON, B701,273, by Zellstoffabrik Waldhof, Mannheim-Waldhof, SKELS, B705,727, by Smith Kendon, Ltd., London, S.E.1. SEBIX, SOLCO, 706,776-77, by Genatosan, Ltd., Ips-wich. EVASPRIN, 706,868, by Evans Medical Supplies, Ltd., Liverpool.

For insecticides and fungicides (5).

HORTAG, 705,721, by Day, Son & Hewitt, Ltd., London, W.1.

For medicated saline preparations for human use for liver ailments (5).

ANDREWS LIVER SALT, 706,615, by Scott & Turner, Ltd., Newcastle-on-Tyne.

For disinfectants (5).

CDC, 706,805, by Colonial Development Corporation, London, W.I.

For antibiotics (5).

CRYSTAMYCIN, 707,075, by Glaxo Laboratories, Ltd., Greenford.

For preparations of vitamins for use as nutritional aids to animal feeding stuffs (5).

DEKOL, 707,311, by Leonard Smith & Co., Blackheath.

For preparations for killing flies (5).

MURFLY, 707,311, by the Murphy Chemical Co., Ltd., Wheathampstead.

From the "Trade Marks Journal," July 9

For all goods (3).

ADIPONA, 699,913, by Bohme Fettchemie G.m.b.H., Dusseldorf-Holthausen, Germany,

For non-medicated toilet preparations (3).

ANN DELAFIELD, 700,113, by Ann Delafield, NEOKRIN, 706,990, by New York, U.S.A. NEOKRIN, N. V. Drogerijen Maatschappij, Amsterdam, Holland. ALLYR, 707,314, by Ashe Laboratories, Ltd., Leatherhead.

For chemical substances for protection against damage by insects (5).

MITIN, 700,994, by J. R. Geigy, S.A., Basle, Switzerland.

PRINT AND PUBLICITY

Essential Oils Price List.—The June 1952 e tial oils price list of Stafford Allen & Sons, Wharf Road, London, N.1, has been issued.

on Homogeniser.-Ultrasonics, Booklet Central Chambers, Cheapside, Bradford, have issued an 8-p. booklet on their Rapi homogeniser.

Press Campaigns.—Scott & Bowne, Ltd., Upper Brook Street, London, W.I, have instit the largest ever Kemdex summer advertising paign in the national Press .- Araby toilet and Cidal germicidal soap are being natio: advertised by J. Bibby & Sons, Ltd., King Edv Street, Liverpool, 3.—CROOKES LABORATORIES, l Park Royal, London, N.W.10, are advertising Lacto-calamine sunburn lotion and antiseptic der base on a large scale throughout the sumr

Medical Leaflets.-Leaflets, folders and bod obtainable from manufacturers include those below : -

ABBOTT LABORATORIES, LTD., Wadsworth I Perivale, Greenford, Middlesex: "What's N issue No. 5.

C. L. BENCARD, LTD., Great West Road, F ford, Middlesex: "Hepathyol Lipotropic pound" (24-p. booklet and card).

BURROUGHS WELLCOME & Co., 183 Euston I London, N.W.1. "Digoxin, B.W. & Co." (booklet); "Methedrine," "Ergometrine Ma B.W. & Co.," "3 Insulins, B.W. & Co.," "loid Theoba" (4-p. leaflets); "A Penicillin duct for Every Purpose," "Physeptone" (blot s" Tabloid Memoranda No. 4, 1952" conta articles on "Drug Nomenclature and its Proble "The Evolution of the Pharmacopæia," and Film in Medical Science.'

DALMAS, LTD., Junior Street, Leicester, published recently an 8-page booklet of explorem the book "Descriptive Account of a Method of Treating old Ulcers of the written by a Bristol surgeon, Thomas Baynto 1797. Present-day developments are indi-Also published is a well-illustrated 16-p. be entitled "The Ambulatory Treatment of Ulces

GLANO LABORATORIES, LTD., Greenford: 'Names for Your Prescribing' (a cardboard mark); A new series of "Essential Facts" le for pharmacists include the following: Tablet "; "Casilan"; "Ostermilk"; "I bin "; "Minadex"; "Fersolate"; "Far "Estopen"; "Cytamen"; "Factor of Gr Importance" (4-p. leaflet on Cytacon); "Pen in Strength " (4-p. leaflet).

Oxo, Ltd. (Medical Department), Thames I's London, E.C.4: "Miotrol" (4-p. leaflet).

JOHN WYETH & BRO., LTD., Clifton I Euston Road, London, N.W.1: "Treatme Fungous Infections with Sopronol" (8-p. bot

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1. Severe hæmorrhage.

2. Because of the danger of transmi serum jaundice.



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